

ACCESS SERVICE

7. Special Access Service7.1 General

Special Access Service provides a transmission path to connect customer designated premises*, directly, through a Telephone Company hub or hubs where bridging or multiplexing functions are performed, or to connect a customer designated premises and a WATS Serving Office. Special Access Service includes all exchange access not utilizing Telephone Company end office switches.

The connections provided by Special Access Service can be either analog or digital. Analog connections are differentiated by spectrum and bandwidth. Digital connections are differentiated by bit rate.

7.1.1 Channel Types

There are seven types of channels used to provide Special Access Services. Each type has its own characteristics. All are subdivided by one or more of the following:

- Transmission specifications,
- Bandwidth
- Speed (i.e., bit rate),
- Spectrum

Customers can order a basic channel and select from a list of available transmission parameters and channel interfaces those that they desire to meet specific communications requirements.

For purposes of ordering channels, each has been identified as a type of Special Access Service. However, such identification is not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use. For example, if a customer's equipment is capable of transmitting voice over a channel that is identified as a Metallic Service in this tariff, there is no restriction against doing so.

* Telephone Company Centrex CO and CO-like switches are considered to be a customer designated premises for purposes of this tariff.

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7. Special Access Service7.1 General (Cont'd)7.1.1 Channel Types (Cont'd)

Following is a brief description of each type of channel:

Metallic - a channel for the transmission of low speed varying signals at rates up to 30 baud.

Telegraph Grade - a channel for the transmission of binary signals at rates of 0 to 75 baud or 0 to 150 baud.

Voice Grade - a channel for the transmission of analog signals within an approximate bandwidth of 300 to 3000 Hz.

Program Audio - a channel for the transmission of audio signals. The nominal frequency bandwidths are from 200 to 3500 Hz, from 100 to 5000 Hz, from 50 to 8000 Hz, or 50 to 15000 Hz.

Video - a channel for the transmission of standard 525 line 60 field monochrome or National Television Systems Committee color video signal and one or two associated 5 or 15 kHz audio signals. The bandwidth is either 30 Hz to 4.5 MHz or 30 Hz to 6.6 MHz.

Digital Data - a channel for the digital transmission of synchronous serial data at rates of 2.4, 4.8, 9.6, 19.2, 56.0 or 64.0 kbps.

High Capacity - a channel for the transmission of isochronous serial digital data at rates of 1.544 or 44.736 Mbps.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.1 Channel Types (Cont'd)

Detailed descriptions of each of the channel types are provided in 7.5 through 7.11 following.

The customer also has the option of ordering Voice Grade and High Capacity facilities (i.e., 1.544 Mbps and 44.736 Mbps) to Telephone Company hubs for multiplexing to individual channels of a lower capacity or bandwidth. Descriptions of the types of multiplexing available at the hubs, as well as the number of individual channels which may be derived from each type of facility are set forth in 7.7 and 7.11 following. Additionally, the customer may specify optional features for the individual channels derived from the facility to further tailor the channel to meet specific communications requirements. Descriptions of the optional features and functions available are set forth in 7.2.1 (C) following.

For example, a customer may order a 44.736 Mbps High Capacity channel from a customer designated premises to a Telephone Company hub for multiplexing to twenty-eight (28) 1.544 Mbps channels. The 1.544 Mbps channels may be further multiplexed at the same or a different hub to Voice Grade channels or may be extended to other customer designated premises or hubs. Optional features may be added to either the 1.544 Mbps or the Voice Grade channels.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.2 Service Descriptions

For the purposes of ordering, there are seven categories of Special Access Service. These are:

- Metallic (MT)
- Telegraph Grade (TG)
- Program Audio (AP)
- Video (TV)
- Voice (VG)
- Digital Data (DA)
- High Capacity (HC)

Each service consists of a basic channel to which a technical specifications package (customized or predefined), channel interface(s) and, when desired, optional features and functions are added to construct the service desired by the customer. Technical specifications packages and optional features and functions are described in this section. Channel interfaces are described in 15.3 following.

Customized technical specifications packages will be provided where technically feasible. If the Telephone Company determines that the requested parameter specifications are not compatible, the customer will be advised and given the opportunity to change the order.

When a customized channel is ordered the customer will be notified whether Additional Engineering Charges apply. In such cases, the customer will be given an estimate of the hours to be billed before any further action is taken on the order.

The channel description specifies the characteristics of the basic channel and indicates whether the channel is provided between customer designated premises, between a customer designated premises and a Telephone Company hub where bridging or multiplexing functions are performed between hubs, or between a customer designated premises and a WATS Serving Office.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.2 Service Descriptions Cont'd

- (A) Information pertaining to the technical specifications packages indicates the transmission parameters that are available with each package. This information is displayed in a matrix with the transmission parameters listed down the left side and the packages listed across the top. Each package is identified by a code, e.g., VGC. The first two letters of the code indicate the category of Special Access Service to which the parameters are applicable. These two letter codes are shown above in parentheses following the category of Special Access Service. The letter "C" following the two letter code indicates the technical specifications package for a customized service. The letter "w" following the two letter code indicates the technical specifications package for a voice grade Special Access Service used in the provision of WATS or WATS-type service using a Telephone Company designated WATS Serving Office. A numeric or alpha-numeric designation following the two letter code indicates the specific predefined package. For a customized service, the customer may select any parameters available with that category of service as long as the parameters are compatible. When appropriate, the Technical Reference which contains detailed specifications for the parameters is shown following the matrix.
- (B) Channel interfaces at each Point of Termination on a two-point service may be symmetrical or asymmetrical. On a multipoint service they may also be symmetrical or asymmetrical, but communications can only be provided between compatible interfaces. Only certain channel interfaces are compatible. These are set forth in 15.3 following, in a combination format.
- (C) Only certain channel interface combinations are available with the predefined technical specifications packages. These are delineated in the Technical References set forth in (F) following. When a customized channel is requested, all channel interface combinations available with the specified type of service are available with the customized channel.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.2 Service Descriptions (Cont'd)

- (D) The optional features and functions available with each type of Special Access Service are described in this section. The optional features and functions information also indicates with which technical specifications packages they are available. Such information is displayed in a matrix with the optional feature or function listed down the left side and the technical specifications package listed across the top.
- (E) The Telephone Company will maintain existing transmission specifications on services installed prior to the effective date of this tariff, except that existing services with performance specifications exceeding the standards listed in this provision will be maintained at the performance levels specified in this tariff.
- (F) All services installed after the effective date of this tariff will conform to the transmission specification standards contained in this tariff or in the following Technical References for each category of service:

| | |
|-----------------|---|
| Metallic | TR-NPL-000336 |
| Telegraph Grade | TR-NPL-000336 |
| Voice Grade | TR-NPL-000335 |
| | PUB 41004, Table 4 |
| Program Audio | TR-NPL-000337 |
| Video | TR-NPL-000338 |
| Digital Data | TR-NPL-000341, Bellcore PUB 62310 |
| | AT&T PUB 62310, INC Bulletin CB-INC-100 |
| High Capacity | PUB 62411 |
| | TR-NPL-000342 |

7.1.3 Service Configurations

There are two types of service configurations over which Special Access Services are provided: two-point service and multipoint service.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.3 Service Configurations (Cont'd)(A) Two-Point Service

A two-point service connects two customer designated premises, either on a directly connected basis or through a hub where multiplexing functions are performed, or a customer designated premises and a WATS Serving Office (WSO).

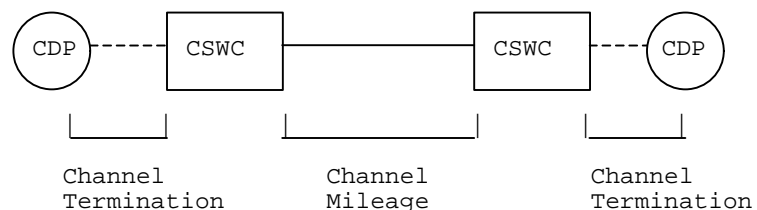
Applicable rate elements are:

- Channel Terminations
- Channel Mileage (as applicable)
- Optional Features and Functions (when applicable)

A Special Access Surcharge, as set forth in 7.3 following and a Message Station Equipment Recovery Charge, as set forth in 7.4 following, may be applicable.

The following diagram depicts a two-point Voice Grade service connecting two customer designated premises (CDP) located 15 miles apart. The service is provided with C-Type conditioning.

CDP - Customer Designated Premises
CSWC - Customer Serving Wire Center



Applicable rate elements are:

- Channel Terminations (applicable one (1) per CDP)
- Channel Mileage (1 section, Channel Mileage Facility per mile plus 2 Channel Mileage Terminations)
- C-Type Conditioning Optional Feature

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7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

(A) Two-Point Service (Cont'd)

If one of the Customer Designated Premises is an Expanded Interconnection Location:

- One Channel Termination and one Cross-connect are applicable rate elements.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.3 Service Configurations (Cont'd)(B) Multipoint Service

Multipoint service connects three or more customer designated premises through one or more Telephone Company hubs. Only certain types of Special Access Service are provided as multipoint service. These are so designated in the descriptions for the appropriate channel.

The channel between hubs (i.e., bridging locations) on a multipoint service is a mid-link. There is no limitation on the number of mid-links available with a multipoint service. However, when more than three mid-links in tandem are provided the quality of the overall service may be degraded.

Multipoint service utilizing a customized technical specifications package, as set forth in 7.1.2 preceding, will be provided when technically possible. If the Telephone Company determines that the requested characteristics for a multipoint service are not compatible, the customer will be advised and given the opportunity to change the order.

When ordering, the customer will specify the desired bridging hub(s). EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. NO. 4 identifies serving wire centers, hub locations and the type of bridging functions available.

Applicable Rate Elements are:

- Channel Terminations (one per customer designated premises)
- Channel Mileage (as applicable between the serving wire center for each customer designated premises and the hub and between hubs).
- Bridging
- Additional Optional Features and Functions (when applicable)

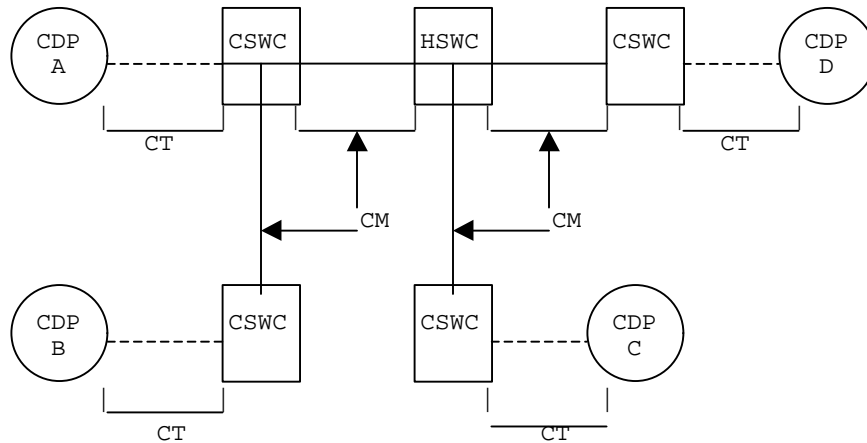
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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.3 Service Configurations (Cont'd)(B) Multipoint Service (Cont'd)

The Special Access Surcharge, as set forth in 7.3 following, and a Message Station Equipment Recovery Charge, as set forth in 7.4 following, may be applicable.

Example: Voice Grade multipoint service connecting four customer designated premises (CDP) via two customer specified bridging hubs.

CDP - Customer Designated Premises
HSWC - Hub Serving Wire Center
CSWC - Customer Serving Wire Center



Applicable rate elements are:

- Channel Terminations (4 applicable)
- Channel Mileage (4 sections, Channel Mileage Facility per mile plus 2 Channel Mileage Terminations per section)
- Bridging Optional Feature (6 applicable, i.e., each bridge port)

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.4 Alternate Use

Alternate Use occurs when a service is arranged by the Telephone Company so that the customer can select different types of transmission at different times. A customer may use a service in any privately beneficial manner. However, where technical or engineering changes are required to effectuate an alternate use, the Telephone Company will make such special arrangements available on an individual case basis.

The arrangement required to transfer the service from one operation to the other (i.e., the transfer relay and control leads) will be rated and provided on an individual case basis and filed in Section 12., Specialized Service or Arrangements. The customer will pay the stated tariff rates for the Access Service rate elements for the service ordered (i.e., Channel Terminations, Channel Mileage (as applicable) and Optional Features and Functions (if any)).

7.1.5 Special Facilities Routing

A customer may request that the facilities used to provide Special Access Service be specially routed. The regulations, rates and charges for Special Facilities Routing (i.e., Avoidance, Diversity and Cable-Only) are set forth in 11. following.

7.1.6 Design Layout Report

At the request of the customer, the Telephone Company will provide to the customer the make-up of the facilities and services provided under this tariff as Special Access Service to aid the customer in designing its overall service. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided to the customer at no charge, and will be reissued or updated whenever these facilities are materially changed.

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.7 Acceptance Testing

At no additional charge, the Telephone Company will, at the customer's request, cooperatively test at the time of installation, the following parameters:

- (A) For Voice Grade analog services, acceptance test will include tests for loss, 3-tone slope, DC continuity, operational signaling, C-notched noise, and C-message noise when these parameters are applicable and specified in the order for service. Additionally, for Voice Grade services, a balance (improved loss) test will be made if the customer has ordered the improved loss optional feature.
- (B) For other analog services (i.e., Metallic, Telegraph, Program Audio, and Video) and for digital services (i.e., Digital Data and High Capacity) service, acceptance tests will include tests for the parameters applicable to the service as specified by the customer in the order for service.

In addition to the above tests, Additional Cooperative Acceptance Testing for Voice Grade service to test other parameters, as described in 13.3.2 following, is available at the customer's request. All test results will be made available to the customer upon request.

7.1.8 Ordering Options and Conditions

Special Access Service is ordered under the Access Order provisions set forth in 5. preceding. Also included in that section are other charges which may be associated with ordering Special Access Service (e.g., Service Date Change Charges, Cancellation Charges, etc.).

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7. Special Access Service (Cont'd)7.2 Rate Regulations

This section contains the specific regulations governing the rates and charges that apply for Special Access.

7.2.1 Rate Categories

There are three basic rate categories which apply to Special Access Service:

- Channel Terminations (described in 7.2.1(A) following)
- Channel Mileage (described in 7.2.1(B) following)
- Optional Features and functions (described in 7.2.1(C) following)

(A) Channel Termination

The Channel Termination rate category provides for the communications path to each customer designated premise. Included as part of the Channel Termination is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the access service is to be connected at the Point of Termination (POT) and the type of signaling capability, if any.

The signaling capability itself is provided as an optional feature as set forth in (C) following. One Channel Termination charge applies per customer designated premises at which the channel is terminated. This charge will apply even if the customer designated premises and the serving wire center are co-located in a Telephone Company building.

For DS3 High Capacity Service, the Channel Termination rates are made up of the DS3 Capacity Interface rate and the DS3 Channel Installed rate. The Capacity Interface rate is dependent upon the capacity ordered (i.e., Capacity Interface of 1, 3, 6 or 12) and is applicable at each customer designated premises. The capacity ordered is the maximum number of DS3 services that can be terminated on a given service at the customer designated premises (e.g., a capacity of 3 can terminate 1, 2, or 3 DS3 services). One DS3 channel installed rate applies per customer designated premises at which the channel is terminated for each DS3 channel that is ordered. These charges will apply even if the customer designated premises and the serving wire center are collocated in a telephone company building.

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7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(B) Channel Mileage

The Channel Mileage rate category provides for the end office equipment and the transmission facilities between the serving wire centers associated with two customer designated premises, between a serving wire center associated with a customer designated premises and a Telephone Company hub or between two Telephone Company hubs. Channel Mileage rates are made up of the Channel Mileage Facility rate and the Channel Mileage Termination rate.

(1) Channel Mileage Facility

The Channel Mileage Facility rate recovers the cost for the transmission path which extends between the Telephone Company serving wire centers and/or hub(s) and includes primarily outside plant used to provide the facility.

(2) Channel Mileage Termination

The Channel Mileage Termination rate recovers the cost for end office equipment associated with terminating the facility (i.e., basic circuit equipment and terminations at serving wire centers and hubs). The Channel Mileage Termination rate will apply at the serving wire center(s) for each customer designated premises and Telephone Company hub where the channel is terminated. If the Channel Mileage is between Telephone company bridging hubs, the Channel Mileage Termination rate will apply per Telephone Company designated hub. When the Channel Mileage Facility is zero (i.e., co-located serving wire centers), neither the Channel Mileage Facility nor the Channel Mileage Termination rate will apply.

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7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(C) Optional Features and Functions

The Optional Features and Functions rate category provides for optional features and functions which may be added to a Special Access Service to improve its quality or utility to meet specific communications requirements. These are not necessarily identifiable with specific equipment, but rather represent the end result in terms of performance characteristics which may be obtained. These characteristics may be obtained by using various combinations of equipment. Although the equipment necessary to perform a specified function may be installed at various locations along the path of the service, they will be charged for as a single rate element.

Examples of Optional Features and Functions that are available include, but are not limited to, the following:

- Signaling Capability
- Hubbing Functions
- Conditioning
- Transfer Arrangements

A hub is a Telephone Company designated serving wire center at which bridging or multiplexing functions are performed. The bridging functions performed are to connect three or more customer designated premises in a multipoint arrangement. The multiplexing functions are to channelize analog or digital facilities to individual services requiring a lower capacity or bandwidth. EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. NO. 4 identifies serving wire centers, hub locations and the type of bridging or multiplexing functions available.

Descriptions for each of the available Optional Features and Functions are set forth in 7.5 through 7.11 following.

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7 Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.2 Types of Rates and Charges

There are three types of rates and charges. These are monthly rates, daily rates and nonrecurring charges. The rates and charges are described as follows:

(A) Monthly Rates

Monthly rates are recurring rates that apply each month or fraction thereof that a Special Access Service is provided. For billing purposes, each month is considered to have 30 days.

(B) Daily Rates

Daily rates are recurring rates that apply to each 24 hour period or fraction thereof that a Program Audio or Video Special Access Service is provided for part-time use. For purposes of applying daily rates, the 24 hour period is not limited to a calendar day.

Part-time Video or Program Audio Service provided within a consecutive 30 day period will be charged the daily rate, not to exceed an amount equal to the monthly rate. For each subsequent day or part day, a charge equal to 1/30th of the monthly rate shall apply.

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7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.2 Types of Rates and Charges (Cont'd)(C) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for specific work activity (i.e., installation or change to an existing service). The types of nonrecurring charges that apply for Special Access Service are: installation of service, installation of optional features and functions, and service rearrangements.

(1) Installation of Service

Nonrecurring charges apply to each service installed. The nonrecurring charges for the installation of service are set forth in each channel type as a nonrecurring charge for the Channel Termination.

(2) Installation of Optional Features and Functions

Nonrecurring charges apply for the installation of some of the optional features and functions available with Special Access Service. The charge applies whether the feature or function is installed coincident with the initial installation of service or at any time subsequent to the installation of the service.

The optional features for which nonrecurring charges apply are:

- Voice Grade Data Capability
- Voice Grade Telephoto Capability
- Program Audio Gain Conditioning
- Program Audio Stereo

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7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.2 Types of Rates and Charges (Cont'd)(C) Nonrecurring Charges (Cont'd)(3) Service Rearrangements

Service rearrangements are changes to existing (installed) services which may be administrative only in nature, as set forth following, or that involve actual physical change to the service. Changes to pending orders are set forth in 5.2.2 preceding.

Changes in the physical location of the point of termination or customer designated premises are moves as set forth in 7.2.3 following.

Changes in the type of Service, Channel Termination which result in a change of the minimum period requirement will be treated as a discontinuance of the service and an installation of a new service.

Changes in ownership or transfer of responsibility from one customer to another will be treated as a discontinuance of the service and an installation of a new service, except under those conditions as set forth in 2.1.2(A) preceding.

Administrative changes will be made without charge(s) to the customer. Administrative changes are as follows:

- Change of customer name when the change of name is not the result of a transfer or change of ownership or responsibility,
- Change of customer or customer's end user premises address when the change of address is not a result of a physical relocation of equipment,
- Change in billing data (name, address, or contact name or telephone number),
- Change of agency authorization,
- Change of customer circuit identification,

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7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.2 Types of Rates and Charges (Cont'd)(C) Nonrecurring Charges (Cont'd)(3) Service Rearrangements (Cont'd)

- Change of billing account number,
- Change of customer test line number,
- Change of customer or customer's end user contact name or telephone number, and
- Change of jurisdiction.

All other service rearrangements will be charged for as follows:

- If the change involves the addition of other customer designated premises to an existing multipoint service, the nonrecurring charge for the channel termination or will apply. The charge(s) will apply only for the location(s) that is being added.
- If the change involves the addition of an optional feature or function which has a separate nonrecurring charge, that nonrecurring charge will apply.
- If the change involves changing the type of signaling on a Voice Grade service, a charge equal to the Voice Grade channel termination rate element nonrecurring charge will apply. The charge will apply per service termination affected.
- For all other changes, including the addition of an optional feature or function without a separate nonrecurring charge, a charge equal to a channel termination or cross-connect nonrecurring charge will apply. Only one such charge will apply per service, per change.

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7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.3 Moves

A move involves a change in the physical location of one of the following:

- The Point of Termination at the customer's premises
- The customer's premises

The charges for the move are dependent on whether the move is to a new location within the same building or to a different building.

(A) Moves Within the Same Building

When the move is to a new location within the same building, the charge for the move will be an amount equal to one half of the nonrecurring (i.e., installation) charge for the service termination affected. There will be no change in the minimum period requirements.

(B) Moves To a Different Building

Moves to a different building will be treated as a discontinuance and start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established for the new services. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.

7.2.4 Minimum Periods

The minimum service period for all Special Access services except part-time Video and Program Audio services and DS3 High Capacity Service is one month. The minimum service period for part-time Video and Program Audio services is one day (i.e., a continuous 24-hour period, not limited to a calendar day). The minimum service period for DS3 High Capacity Service is twelve months.

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7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.5 Mileage Measurement

The mileage to be used to determine the monthly rate for the Channel Mileage Facility is calculated on the airline distance between the locations involved, i.e., the serving wire centers associated with two customer designated premises, a serving wire center associated with a customer designated premises and a Telephone Company hub, two Telephone Company hubs or between the serving wire center associated with a customer designated premises and a WATS serving office. The serving wire center associated with a customer designated premises is the serving wire center from which this customer designated premises would normally obtain dial tone.

Mileage charges are shown with each channel type. To determine the rate to be billed, first compute the mileage using the V&H coordinates method, as set forth in the EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. NO. 4, then multiply the resulting number of miles times the Channel Mileage Facility per mile rate, and add the Channel Mileage Termination rate for each termination. When the calculation results in a fraction of a mile, always round up to the next whole mile before determining the mileage and applying the rates.

When hubs are involved, mileage is computed and rates applied separately for each section of the Channel Mileage, i.e., customer designated premises serving wire center to hub, hub to hub and/or hub to customer designated premises serving wire center. However, when any service is routed through a hub for purposes other than customer specified bridging or multiplexing (e.g., the Telephone Company chooses to do so route for test access purposes), rates will be applied only to the distance calculated between the serving wire centers associated with the customer designated premises.

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7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.6 Facility Hubs

A customer has the option of ordering Voice Grade service or High Capacity services (i.e., DS1) to a facility hub for channelizing to individual services requiring lower capacity facilities (e.g., Telegraph, Voice, Program Audio, etc.).

Different locations may be designated as hubs for different facility capacities, e.g., multiplexing from digital to digital may occur at one location while multiplexing from digital to analog may occur at a different location. When placing an Access Order the customer will specify the desired hub. EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. NO. 4 identifies serving wire centers, hub locations and the type of multiplexing functions available.

Some of the types of multiplexing available include the following:

- from higher to lower bit rate
- from higher to lower bandwidth
- from digital to voice frequency channels

Point to point services may be provided on channels of these services to a hub. The transmission performance for the point to point service provided between customer designated premises will be that of the lower capacity or bit rate. For example, when a 1.544 Mbps channel is multiplexed to voice frequency channels, the transmission performance of the channelized services will be Voice Grade, not High Capacity.

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7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.6 Facility Hubs (Cont'd)

The Telephone Company will commence billing the monthly rate for the service to the hub on the date specified by the customer on the Access Order. Individual channels utilizing these services may be installed coincident with the installation of the service to the hub or may be ordered and/or installed at a later date, at the option of the customer. The customer will be billed for a Voice Grade or a High Capacity Channel Termination, Channel Mileage (when applicable), and the multiplexer at the time the service is installed. Individual service rates (by service type) will apply for a Channel Termination and additional Channel Mileage (as required) for each channelized service. These will be billed to the customer as each individual service is installed.

Cascading multiplexing occurs when a High Capacity service is de-multiplexed to provide channels with a lesser capacity. For example, a DS1 channel is de-multiplexed to 24 individual Voice Grade channels.

When cascading multiplexing is performed, whether in the same or a different hub, a charge for the additional multiplexing unit also applies. When cascading multiplexing is performed at different hubbing locations, Channel Mileage charges also apply between the hubs.

The Telephone Company will designate hubs for Video and Program Audio Services. Full-time or part-time service may be provided between customer designated premises or between a customer designated premises and a hub and billed accordingly at the monthly rates set forth in 7.8 and 7.9 following for a Channel Termination, Channel Mileage and Optional Features and Functions, as applicable.

When the service is ordered to a hub, the customer may order a full-time or part-time Video and Program Audio services as needed between that hub and

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7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.6 Facility Hubs (Cont'd)

additional customer designated premises. The rate elements required to provide the part-time service (i.e., Channel Termination, Channel Mileage and Optional Features and Functions, as applicable) will be billed at daily rates for the duration of the service requested.

7.2.7 Shared Use Analog and Digital High Capacity Services

Shared use refers to a rate application applicable only when the customer orders High Capacity Special Access facilities between a customer designated premises and a Telephone Company hub where the Telephone Company performs multiplexing/demultiplexing functions and the same customer then orders the derived channels as Special and Switched Access Services. If the customer has Switched Access Service between a customer designated premises and an end office that is multiplexed at a Telephone Company hub and subsequently orders the derived channels as Special and Switched Access Service, rates and charges will apply as if the service were ordered as shared use.

Except as noted above, the High Capacity facility will be ordered, provided and rated as Special Access Service (i.e., Channel Termination, Channel Mileage, as appropriate, and Multiplexing Arrangement). The nonrecurring charge that applies when the shared use facility is installed will be the nonrecurring charge associated with the appropriate Special Access High Capacity Channel Termination. Rating as Special Access will continue until such time as the customer chooses to use a portion of the available capacity for Switched Access Service. Individual service (i.e., Switched or Special Access) nonrecurring charges will not apply to the individual channels of the shared use facility.

When Special Access Service is provided utilizing a channel of the shared use facility to a hub, High Capacity rates and charges will apply for the facility to the hub, as set forth preceding, and individual service rates and charges will apply from the hub to the customer designated premises. The rates and charges that will apply to the portion from the hub to the customer designated premises will be dependent on the specific

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7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.7 Shared Use Analog and Digital High Capacity Services (Cont'd)

type of Special Access Service that is provided (e.g., Voice Grade, Telegraph, etc.). The applicable rates and charges will include a Channel Termination and Channel Mileage, if applicable. Rates and charges for optional features and functions associated with the service, if any, will apply for the appropriate channel type.

As each individual channel is activated for Switched Access Service, the High Capacity Special Access Channel Termination, Channel Mileage, and Multiplexing rates will be reduced accordingly (e.g., 1/24th for a DS1 service, 1/672nd for a per DS3 or DS3 capacity of 1, 1/2016th for a DS3 capacity of three, etc.).

Switched Access Service rates and charges, as set forth in 6.8 preceding, will apply for each channel that is used to provide a Switched Access Service. Additionally, the Switched Access Service Entrance Facility, Direct-Trunked Transport, and Multiplexing charges, if applicable, will be reduced by multiplying their respective rates by the ratio of derived Switched Access Service channels to the total number of Voice Grade channels that can be derived.

The customer must place an order for each individual Switched or Special Access Service utilizing the Shared Use Facilities and specify the channel assignment for each such service.

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7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.8 High Capacity Optional Rate Plans

There are two High Capacity Optional Rate plans; a Term Discount plan and a Capacity Discount plan.

The Term Discount plan applies to Special Access DS3 High Capacity Service Channel Termination, Channel Mileage Facility and Channel Mileage Termination monthly rates, as set forth following. The amount of the discount differs based on the length of the service commitment period selected by the customer.

Discounts for the Term Discount plan are only applied to High Capacity Service provided a customer within the same state and LATA by the same telephone company.

Discounts for the Capacity Discount plan are only applied to Special Access DS3 High Capacity Service Channel Termination monthly rates as set forth in 7.11.6 following.

The minimum service period on a monthly rate basis is one month for DS1 service and twelve months for DS3 service.

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7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.8 High Capacity Optional Rate Plans (Cont'd)(A) Term Discounts

DS3 High Capacity Special Access Service may be ordered at the customer's option on a monthly rate basis or for Term Discount periods of 36 months (3 years) or 60 months (5 years).

The minimum service period for all Term Discount plans is twelve months. The customer must specify the length of the service commitment period at the time the service is ordered.

For customers that subscribe to the Term Discount plan for 36 or 60 months, the Term Discount Rates as set forth in 7.11.6 following will be frozen from Company initiated increases, for the entire discount period at the rates in effect at the beginning of the term Discount period.

If a Term Discount rate decrease occurs during the term of an existing Term Discount plan, the decreased rate will be applied automatically to the remainder of the current Term Discount period.

At the end of the Term Discount period, the customer may convert to month-to-month service or subscribe to a new Term Discount Plan. If the customer does not make a choice by the end of the discount period, the rates will automatically convert to month-to-month service rates.

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7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.8 High Capacity Optional Rate Plans (Cont'd)

(A) Term Discounts (Cont'd)

To be included in a Service Term Discount plan, all eligible High Capacity rate elements must be ordered for the same commitment term (i.e., all 36 months or all 60 months) and with the same service date. When additional capacity is subsequently added, it will be available only on a month-to-month basis unless the discount period of the entire service is upgraded.

Eligible DS3 High Capacity rate elements are those Channel Terminations, Channel Mileage Facility and Channel Mileage Terminations provided to a customer within the same state and LATA by the same telephone company.

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7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.8 High Capacity Optional Rate Plans (Cont'd)(A) Term Discounts (Cont'd)(1) Upgrades in Term Discounts

Services provided under monthly rates or Term Discount rates may be upgraded to a Term Discount plan at any time without incurring Channel Termination nonrecurring charges or discontinuance charges for existing services. The new Term Discount plan must meet or exceed the service term of the plan being upgraded. For example, a service with a 36-month commitment period may be upgraded to a new 36-month or 60-month service period. The monthly rates will be those that are in effect at the time the service is upgraded. A new minimum service period applies to all High Capacity Service that is upgraded.

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7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.8 High Capacity Optional Rate Plans (Cont'd)(A) Term Discounts (Cont'd)(2) Upgrades in Capacity (DS1 to DS3)

A new minimum service period applies to all upgrades. Channel Termination nonrecurring charges for an equivalent channel capacity of the existing services being upgraded to the higher speed service will not be assessed. For example, 30 DS1 Services are being upgraded to DS3 Service. A capacity of 3 is installed at the customer's request. A total of 2 DS3 Channel rate elements will be installed without Channel Termination nonrecurring charges being assessed as it will require 2 DS3 Channel rate elements to provide the equivalent channel capacity of the existing services. Channel Termination nonrecurring charges will not apply to the upgraded lower speed services placed on the higher speed service if requested at the same time as the upgrade request. Channel Termination nonrecurring charges will apply for capacity that exceeds the existing equivalent channel capacity.

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7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.8 High Capacity Optional Rate Plans (Cont'd)(A) Term Discounts (Cont'd)(3) Discontinuance of Service

If the customer chooses to disconnect all or a portion of the service prior to the expiration of the Term Discount period, discontinuance charges will apply to the portion of the service being discontinued.

Should the customer choose to discontinue a Term Discount plan prior to the completion of the minimum service period, discontinuance charges will apply. Discontinuance charges equal to one-hundred percent of the total undiscounted monthly rates, less any amounts previously paid, will apply for the minimum service period.

Additionally, discontinuance charges of fifty percent of the total undiscounted monthly DS3 charges will apply to the remaining portion of the discount service term.

Should the customer choose to discontinue service ordered under a Term Discount plan after the minimum service period but before the completion of the discount period, discontinuance charges will apply. Discontinuance charges of fifty percent for DS3 Service, of the total undiscounted monthly charges will apply to the remaining portion of the discount period. For example, a customer has a DS3 Service which it chooses to discontinue after 33 months into a 60-month service term. The discontinuance charge would be 0.50 times 27 months times the undiscounted monthly rate for that service.

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7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.8 High Capacity Optional Rate Plans (Cont'd)(B) DS3 Capacity Discounts

DS3 High Capacity Service may also be ordered at discounted rates in capacities of 3, 6 and 12 systems under a Capacity Discount Plan. Capacity Discounts apply only to DS3 Channel Terminations (i.e., DS3 Capacity Interfaces and DS3 Channels Installed). DS3 Capacity Discounts may be ordered as part of, or separate from Term Discount plans. When ordered in conjunction with Term Discount plans, the DS3 Channel Terminations must all be ordered under the same month-to-month rate or Term Discount plan with the same service period and service date.

For DS3 High Capacity Channel Terminations the Capacity Interface must be ordered before or in conjunction with an associated DS3 Channel Installed. In addition, the Capacity Interface can not be disconnected until all of the DS3 Channels Installed are disconnected.

High Capacity Channel Mileage Facility and Channel Mileage Termination charges will apply as required Per DS3 Channel Installed. Capacity Discounts will not apply to these rate elements.

Capacity Discounts will only apply on DS3 Channel Terminations ordered between a serving wire center and customer location, over the same route. Channel Terminations associated with facilities provided between the same serving wire center and customer location via a second or alternate route will not be included as part of the same Capacity Discount plan as the primary route.

The minimum service period for all Capacity Discount plans is twelve months.

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7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.8 High Capacity Optional Rate Plans (Cont'd)(B) DS3 Capacity Discounts (Cont'd)(1) Upgrades in DS3 Capacity Discounts

Services rated under the DS3 monthly rate plan may be upgraded to a Capacity Discount Plan at any time, without incurring Channel Termination nonrecurring or discontinuance charges for existing services.

Customers with a capacity of 1, 3 or 6 DS3 High Capacity Special Access Systems may upgrade to a new Capacity Discount without incurring Channel Termination nonrecurring or discontinuance charges for existing capacity. This upgrade will be allowed provided the customer designated premises remain the same. Additionally, the new Channel Termination capacity must exceed the Channel Termination capacity of the plan being upgraded. For example, a customer orders a Capacity of 3 DS3 Interface with 2 DS3 Channels Installed. Subsequently, the customer requests an upgrade to a Capacity of 12 DS3 Interface and adds an additional 3 DS3 Channels installed. The monthly rates will be those that are in effect at the time the service is upgraded. A new minimum service period applies to all services that are upgraded. Full Channel Termination nonrecurring charges as set forth in Section 7.11.6 will apply only to the 3 additional DS3 Channels added at the time of the discount plan upgrade.

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7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.8 High Capacity Optional Rate Plans (Cont'd)(B) DS3 Capacity Discounts (Cont'd)(1) Upgrades in DS3 Capacity Discounts (Cont'd)

Customers that subscribe to DS3 Capacity Discount plan may upgrade to a larger Capacity Interface. Discontinuance charges will not apply if all the following conditions are met:

- the customer's order for the disconnect of the current DS3 Capacity Interface and order for the installation of the upgraded DS3 Capacity Interface are received by the telephone company at the same time and specifies that the capacity of service is to be upgraded,
- the customer's disconnect order for the existing DS3 Service must reference the new connection order,
- the new service is provided between the same customer locations as the discontinued service,
- the new service has a DS3 Capacity Interface larger than the Capacity Interface of the discount plan or plans being discontinued and,
- any applicable DS3 High Capacity Term Discount plan time period is reestablished or upgraded at the time of the upgrade in the Capacity Discount plan.

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7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.9 Density Pricing Zones

A system of density pricing has been established wherein each serving wire center and each meet-point with another Telephone Company is assigned to a zone. Services designated as subject to competition may have rates and charges, as set forth in 7.11 following, that vary between zones for the same service.

Interoffice facilities (Channel Mileage Facility and Channel Mileage Termination) between serving wire centers, or between a serving wire center and a meet-point with another Telephone Company, in different density pricing zones shall be rated with the price from the highest priced zone associated with the specific circuit. Channel Terminations and other zoned special access services are rated from the serving wire center to which they are connected.

Density pricing zones, applicable to serving wire centers, are identified in National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4. Meet-points with another Telephone Company are assigned to density pricing zone 3.

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7. Special Access Service (Cont'd)

7.3 Surcharge for Special Access Service

7.3.1 General

- (A) Special access services provided under this tariff may be subject to the monthly Special Access Surcharge.

7.3.2 Application

- (A) The Special Access Surcharge will apply to each interstate Special Access Service that terminates on an end user's PBX or other device where, through a function of the device, the Special Access Service interconnects to the local exchange network. Interconnection functions include, but are not limited to, wiring and software functions, bridging, switching or patching of calls or stations. the Surcharge will apply irrespective of whether the interconnection function is performed in equipment located at the customer's premises or in a Centrex Co-type switch.

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7. Special Access Service (Cont'd)7.3 Surcharge for Special Access Service (Cont'd)7.3.2 Application (Cont'd)

- (B) Special Access Service will be exempted from the Surcharge by the Telephone Company upon receipt of the customer's written certification for the following Special Access Service terminations:
- (1) an open-end termination in a Telephone Company switch of an FX line, including CCSA and CCSA-equivalent ONALs; or
 - (2) an analog channel termination that is used for radio or television program transmission; or
 - (3) a termination used for TELEX service; or
 - (4) a termination that by the nature of its operating characteristics could not make use of Telephone Company common lines such as, terminations which are restricted through hardware or software; or
 - (5) a termination that interconnects either directly or indirectly to the local exchange network where the usage is subject to Carrier Common Line charges such as, where the Special Access Service accesses only FGA and no local exchange lines, or Special Access Service between customer points of termination, or Special Access Service connecting CCSA or CCSA-type equipment (inter-machine trunks); or
 - (6) a termination that the customer certifies to the Telephone Company is not connected to a PBX or other device which interconnects the Special Access Service to a local exchange subscriber line.

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7. Special Access Service (Cont'd)7.3 Surcharge for Special Access Service (Cont'd)7.3.3 Exemption of Special Access Surcharge

- (A) Special Access Services which are terminated as set forth in 7.3.2(B) preceding will be exempted from the Special Access Surcharge if the customer provides the Telephone Company with written exemption certification. The certification may be provided to the Telephone Company (1) at the time the Special Access Service is ordered or installed; (2) at such time as the service is reterminated to a device which does not interconnect to local exchange facilities, or (3) at such time as the service becomes associated with a Switched Access Service that is subject to Carrier Common Line Charges.
- (B) The exemption certification is to be provided by the customer ordering the service. The certification must be signed by the customer or authorized representative and include the category of exemption, as set forth in 7.3.2(B) preceding, for each termination, and the date when the exemption is effective.
- (C) The customer shall also notify the Telephone Company when an exempted Special Access Service is changed or reterminated such that the exemption is no longer applicable.
- (D) The Telephone Company will work cooperatively with the customer to resolve any questions regarding the exemption certification. In addition, the Telephone Company may withhold exemption of the service until the dispute is resolved.

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7. Special Access Service (Cont'd)7.3 Surcharge for Special Access Service (Cont'd)7.3.4 Rate Regulations

- (A) The Surcharge will apply as set forth in 7.3.2(A) preceding, except that a surcharge will be assessed on a per voice grade equivalent basis for Special Access Services derived from High Capacity Special Access Services as shown in the following example:

| <u>Special Access Service</u> | <u>Voice Grade Equivalent</u> | | <u>Surcharge</u> | | <u>Monthly Charge</u> |
|-----------------------------------|-----------------------------------|---|------------------|---|---------------------------|
| DS1 | 24 | x | \$25 | = | \$600.00 |

In the case of multipoint Special Access Services, one Special Access Surcharge will apply for each termination of a Special Access Channel at an end user's premises.

- (B) The Telephone Company will bill the appropriate Special Access Surcharge to the ordering customer for each interstate Special Access Service installed unless exemption certification is provided as set forth in 7.3.3 preceding.
- (C) If a written certification is not received at the time the Special Access Service is obtained, the Surcharge will be applied. Exempt status will become effective on the certification date indicated by the customer, subject to the regulations set forth in (D) following.

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7. Special Access Service (Cont'd)7.3 Surcharge for Special Access Service (Cont'd)7.3.4 Rate Regulations (Cont'd)

(D) Crediting the Surcharge

The Telephone Company will cease billing the Special Access Surcharge when certification, as set forth in 7.3.3 preceding, is received. If the status of the Special Access Service was changed prior to receipt of the exemption certification, the Telephone Company will credit the customer's account, not to exceed ninety (90) days, based on the effective date of the change as specified by the customer in the letter of certification.

(E) Surcharge Payment Deferral Provision

The Telephone Company will bill the surcharge on Special Access facilities in service as of June 1, 1986, used in the provision of WATS or WATS-type service through a Telephone Company designated WATS Serving Office (WSO). Payment of such surcharge may be deferred, without penalty, for up to ninety (90) days from the date of the first bill rendered for the Special Access Surcharge.

If appropriate exemption certification is not received by the Telephone Company by the end of the ninety (90) days deferral period, the billed Special Access Surcharge will become due. These charges, if unpaid, will be subject to a late payment charge as set forth in Section 2.4.1(B)(2) preceding.

7.3.5 Rate

| | <u>USOC</u> | <u>Monthly Rate</u> |
|--------------------------------------|-------------|-------------------------|
| Surcharge for Special Access Service | | |
| -Per Voice Grade Equivalent | S25 | \$25.00 |

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7. Special Access Service (Cont'd)7.5 Metallic Service7.5.1 Basic Channel Description

A Metallic channel is an unconditioned two-wire channel arranged to transmit direct current and capable of transmitting low speed varying signals at rates up to 30 baud. This channel is provided by metallic or equivalent facilities. Metallic channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs where bridging functions are performed. Interoffice metallic facilities will be limited in length to a total of five miles per channel.

It is expressly declared that metallic facilities are in continually decreasing supply and the Company is not obligated to continue to provide such facilities. Due to facility rearrangements, continued use of metallic facilities may be denied to existing customers with no obligation on the Company's part to pay customer equipment rearrangement costs. The Company will give the customer 90 days notification of this type of facility rearrangements. Metallic facilities are provided only where existing facilities and operating conditions permit.

7.5.2 Technical Specifications Packages

| <u>Parameter</u> | <u>Package MT-</u> | | | |
|--------------------|--------------------|----------|----------|----------|
| | <u>C*</u> | <u>1</u> | <u>2</u> | <u>3</u> |
| DC Resistance | | | | |
| Between Conductors | X | X | X | |
| Loop Resistance | X | | | X |
| Shunt Capacitance | | X | | X |

The technical specifications are delineated in Technical Reference TR-NPL-000336.

* All parameters are available within the ranges selected by the customer where technically feasible.

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7. Special Access Service (Cont'd)7.5 Metallic Service (Cont'd)7.5.3 Channel Interfaces

Compatible channel interfaces are set forth in 15.3 following.

7.5.4 Optional Features and Functions(A) Central Office Bridging Capability

- (1) Three Premises Bridging - Provision of tip-to-tip and ring-to-ring connection in a central office of a metallic pair to a third customer designated premises.
- (2) Series Bridging of up to 26 customer designated premises.

The following table shows the technical specifications packages with which the optional features and functions are available.

| | | <u>Available with Technical Specifications Package MT-</u> | | | |
|-------------------------|---|--|----------|----------|----------|
| | | <u>C</u> | <u>1</u> | <u>2</u> | <u>3</u> |
| Three Premises Bridging | | X | X | | X |
| Series Bridging | X | | X | | |

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7. Special Access Service (Cont'd)7.5 Metallic Service (Cont'd)7.5.5 Rates and Charges

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charge</u> | |
|--|-------------|-------------------------|--------------------------------|-----|
| (A) Channel Termination - Per Termination | T6ECS | \$ 7.49 | \$203.05 | (R) |
| | | <u>USOC</u> | <u>Monthly Rate</u> | |
| (B) Channel Mileage | | | | |
| (1) Channel Mileage Facility - Per Mile | | CMF | \$ 17.00 | |
| (2) Channel Mileage Termination - Per Termination | | CMT | None | |
| (C) Optional Features and Functions | | | | |
| (1) Bridging | | | | |
| (a) Three Premises Bridging - Per Port | | BCNM3 | \$ 1.12 | |
| (b) Series Bridging - Per Port | | BCNMS | \$ 1.12 | (R) |

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7. Special Access Service (Cont'd)7.6 Telegraph Grade Service7.6.1 Basic Channel Description

A Telegraph Grade channel is an unconditioned channel capable of transmitting binary signals at rates of 0-75 baud or 0-150 baud. This channel is furnished for half-duplex or duplex operation. Telegraph Grade channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs.

7.6.2 Technical Specifications Packages

| <u>Parameter</u> | | <u>Package TG-</u> | | |
|----------------------|---|--------------------|----------|----------|
| | | <u>C*</u> | <u>1</u> | <u>2</u> |
| Telegraph Distortion | X | X | X | |

The technical specifications are delineated in Technical Reference TR-NPL-000336.

7.6.3 Channel Interfaces

Compatible channel interfaces are set forth in 15.3 following.

7.6.4 Optional Features and Functions

(A) Telegraph Bridging (two-wire and four-wire)

The following table shows the technical specifications packages with which the optional features and functions are available.

| | <u>Available with Technical Specifications Package TG-</u> | | |
|--------------------|--|----------|----------|
| | <u>C*</u> | <u>1</u> | <u>2</u> |
| Telegraph Bridging | X | X | X |

* All parameters are available within ranges selected by the customer where technically feasible.

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7. Special Access Service (Cont'd)7.6 Telegraph Grade Service (Cont'd)7.6.5 Rates and Charges

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charge</u> | |
|-------------------------------------|-------------|-------------------------|--------------------------------|-----|
| (A) Channel Termination | | | | |
| - Per Termination | | | | |
| -Two-Wire | T6E2X | \$19.92 | \$203.05 | (R) |
| -Four-Wire | T6E4X | \$31.86 | \$203.05 | |
| | | | <u>Monthly Rate</u> | |
| (B) Channel Mileage | | | | |
| (1) Channel Mileage Facility | | | | |
| - Per Mile | CMF | | \$ 1.26 | |
| (2) Channel Mileage Termination | | | | |
| - Per Termination | CMT | | \$10.47 | |
| (C) Optional Features and Functions | | | | |
| (1) Telegraph Bridging | | | | |
| Two-Wire and Four-Wire | | | | |
| - Per Port | | | | |
| - Two-Wire | BCNT2 | | \$ 1.12 | |
| - Four-Wire | BCNT4 | | \$ 1.12 | (R) |

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7. Special Access Service (Cont'd)7.7 Voice Grade Service7.7.1 Basic Channel Description

A Voice Grade channel is a channel which provides voice frequency transmission capability in the nominal frequency range of 300 to 3000 Hz and may be terminated two-wire or four-wire. Voice Grade channels are provided between customer designated premises, between a customer designated premises and a Telephone Company hub or hubs, or between a customer designated premises and a WATS Serving Office (WSO).

7.7.2 Technical Specifications Packages

| <u>Parameter</u> | <u>Package VG-</u> | | | | | | | | | | | | | <u>W</u> |
|------------------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|----------|
| | <u>C*</u> | <u>1</u> | <u>2</u> | <u>3</u> | <u>4</u> | <u>5</u> | <u>6</u> | <u>7</u> | <u>8</u> | <u>9</u> | <u>10</u> | <u>11</u> | <u>12</u> | |
| Attenuation | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Distortion | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| C-Message Noise | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Echo Control | X | X | X | X | | X | | X | X | | | X | X | X |
| Envelope Delay | | | | | | | | | | | | | | |
| Distortion | X | | | | | | X | X | X | X | X | X | X | X |
| Frequency Shift | X | | | | | | X | X | X | X | X | X | X | X |
| Impulse Noise | X | | | | | X | X | X | X | X | X | X | X | X |
| Intermodulation | | | | | | | | | | | | | | |
| Distortion | X | | | | | | X | X | X | X | X | X | | X |
| Loss Deviation | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Phase Hits, Gain | | | | | | | | | | | | | | |
| Hits, and | | | | | | | | | | | | | | |
| Dropouts | X | | | | | | | | | | | | | |
| Phase Jitter | X | | | | | | X | X | X | X | X | X | | X |
| Signal-to-C | | | | | | | | | | | | | | |
| Message Noise | | | | | X | | | | | | | | | |
| Signal-to-C | | | | | | | | | | | | | | |
| Notch Noise | X | | | | | X | X | X | X | X | X | X | X | X |

* The desired parameters are selected by the customer from the list of available parameters.

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7. Special Access Service (Cont'd)7.7 Voice Grade Service (Cont'd)7.7.2 Technical Specifications Packages (Cont'd)

The technical specifications for these parameters (except for dropouts, gain hits, and phase hits) are delineated in Technical Reference TR-NPL-000334 and TR-NPL-000335 and associated Addendum. The technical specifications for dropouts, phase hits, and gain hits are delineated in Technical Reference PUB 41004, Table 4.

7.7.3 Channel Interfaces

The following channel interfaces for Voice Grade service do not require signaling capability: AH, DA, DB, DD, DE, DS, NO, PR and TF.

The following channel interfaces for Voice Grade service require signaling capability: AB, AC, CT, DX, DY, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, RV and SF.

Compatible channel interfaces are set forth in 15.3 following.

7.7.4 Optional Features and Functions(A) Central Office Bridging Capability

- (1) Voice Bridging (two-wire and four-wire)
- (2) Data Bridging (two-wire and four-wire)
- (3) Telephoto Bridging (two-wire and four-wire)

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7. Special Access Service (Cont'd)

7.7 Voice Grade Service (Cont'd)

7.7.4 Optional Features and Functions (Cont'd)

(C) Conditioning

Conditioning provides more specific transmission characteristics for Voice Grade services. C-Type conditioning controls attenuation distortion and envelope delay distortion. Sealing Current helps maintain continuity on dry metallic loops.

For two-point services, the parameters apply to each service. For multipoint services, the parameters apply to each mid-link or end link. C-Type conditioning and Data Capability may be combined on the same service.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.7 Voice Grade Service (Cont'd)7.7.4 Optional Features and Functions (Cont'd)(C) Conditioning (Cont'd)(1) C-Type Conditioning

C-Type Conditioning is provided for the additional control of attenuation distortion and envelope delay distortion on data services. The attenuation distortion and envelope delay distortion specifications for C-Type Conditioning are delineated in Technical Reference TR-NPL-000335.

(2) Improved Attenuation Distortion*

Improved Attenuation Distortion upgrades the frequency versus loss limits of the channel. The technical specifications for Improved Attenuation Distortion are delineated in Technical Reference TR-NPL-000335. This option is available only when ordered in combination with C-Type Conditioning.

(3) Improved Envelope Delay Distortion*

Improved Envelope Delay Distortion upgrades the frequency versus delay response limits of the channel. The technical specifications for Improved Envelope Delay Distortion are delineated in Technical Reference TR-NPL-000335. This option is available only when ordered in combination with C-Type Conditioning.

*Improved Attenuation Distortion and Improved Envelope Delay Distortion will continue to be provided to all customers who were provided with either or both of these optional features in conjunction with C-Type Conditioning prior to September 30, 1988.

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7. Special Access Service (Cont'd)7.7 Voice Grade Service (Cont'd)7.7.4 Optional Features and Functions (Cont'd)(C) Conditioning (Cont'd)(4) Sealing Current Conditioning

Sealing Current Conditioning is provided to help maintain continuity on dry metallic loops. It is usually associated with four-wire DA or NO type channel interfaces.

(D) Customer Specified Premises Receive Level

This option allows the customer to specify the receive level at the Point of Termination. The level must be within a specific range on effective four-wire transmission. The ranges are delineated in Technical Reference TR-NPL-000335.

(E) Improved Return Loss

- (1) On Effective Four-Wire Transmission at Four-Wire Point of Termination (applicable to each two-wire port): Provides for a fixed 600 ohm impedance, variable level range and simplex reversal. Telephone Company equipment is required at the customer's premises where this option is ordered. The Improved Return Loss parameters are delineated in Technical Reference TR-NPL-000335.
- (2) On Effective Two-Wire Transmission at Two-Wire Point of Termination: Provides for more stringent Echo Control specifications. In order for this option to be applicable, the transmission path must be four-wire at one POT and two-wire at the other POT. Placement of Telephone Company equipment may be required at the customer's premises with the two-wire POT. The Improved Return Loss parameters are delineated in Technical Reference TR-NPL-000335.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.7 Voice Grade Service (Cont'd)

7.7.4 Optional Features and Functions (Cont'd)

(F) Data Capability (D Conditioning)

Data Capability provides a transmission characteristics suitable for data communications. Specifically, Data Capability provides for the control of Signal to C-Notched Noise Ratio and intermodulation distortion. It is available for two-point services or three-point multipoint services.

The Signal to C-Notched Noise Ratio and intermodulation distortion parameter for Data Capability are delineated in Technical Reference TR-NPL-000335.

When a service equipped with Data Capability is used for voice communications, the quality of the voice transmission may not be satisfactory.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.7 Voice Grade Service (Cont'd)

7.7.4 Optional Features and Functions (Cont'd)

(H) Signaling Capability

Signaling Capability provides for the ability to transmit signals from one customer premises to another customer premises on the same service.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.7 Voice Grade Service (Cont'd)7.7.4 Optional Features and Functions (Cont'd)(K) Four-Wire/Two-Wire Conversions

When a customer requests that an effective four-wire channel be terminated with a two-wire channel interface at the customer designated premises, a four-wire to two-wire conversion is required. The rate for the conversion is included as part of the basic Channel Termination rate. The Channel Termination rate is the four-wire rate.

(L) Improved Two-Wire Voice Transmission(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected measured Loss (EML) is -4.0 dB to +4.0 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 280 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +6.0 dB.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.7 Voice Grade Service (Cont'd)7.7.4 Optional Features and Functions (Cont'd)(L) Improved Two-Wire Voice Transmission (Cont'd)(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than:

| <u>Route Miles</u> | <u>C-Message Noise</u> |
|--------------------|------------------------|
| less than 50 | 35 dBrnc |
| 51 to 100 | 37 dBrnc |
| 101 to 200 | 40 dBrnc |
| 201 to 400 | 43 dBrnc |
| 401 to 1000 | 45 dBrnc |

(4) Return Loss

The Return Loss, expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is equal to or greater than:

| | |
|-----|---------|
| ERL | 13.0 dB |
| SRL | 6.0 dB |

The rate for the provision of Improved Two-Wire Voice Transmission is included as part of the basic Channel Termination rate.

The following table shows the technical specifications packages with which the optional features and functions are available.

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7. Special Access Service (Cont'd)7.7 Voice Grade Service (Cont'd)7.7.4 Optional Features and Functions (Cont'd)

| | Available with Technical Specifications Package VG- | | | | | | | | | | | | | |
|---|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|----------|
| | <u>C</u> | <u>1</u> | <u>2</u> | <u>3</u> | <u>4</u> | <u>5</u> | <u>6</u> | <u>7</u> | <u>8</u> | <u>9</u> | <u>10</u> | <u>11</u> | <u>12</u> | <u>W</u> |
| C-Type Condi- tioning | X | | | | | X | X | X | X | X | X | | | |
| Central Office Bridging Capability | X | | X | | | X | X | | | | X | X | X | X |
| Customer Speci- fied Premises Re- ceive Level | X | | X | X | | | | X | X | X | | | | |
| Data Capability | X | | | | | | X | X | | | X | | | |
| Improved Atten- uation Dis- tortion | X | | | | | X | X | X | X | X | X | | | |
| Improved Enve- lope Delay Distortion | X | | | | | X | X | X | X | X | X | | | |
| Improved Return Loss For Effective Four-Wire Transmission | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| For Effective Two-Wire Transmission | X | | X | X | | | | X | | | | | | |
| Improved Two-Wire Voice Transmission | | | | | | | | | | | | | | X |
| Sealing Current Conditioning | X | | | | | | X | | | | | | | |
| Signaling Capa- bility | X | X | X | X | | | | X | X | X | | | | X |
| Effective Four-Wire Transmission | X | X | X | X | | X | | X | | | | | | |

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7. Special Access Service (Cont'd)7.7 Voice Grade Service (Cont'd)7.7.5 Rates and Charges

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charge</u> | |
|---|-------------|-------------------------|--------------------------------|--------|
| (A) Channel Termination | | | | |
| - Per Termination | | | | |
| -Two-Wire | T6E2X | \$17.79 | \$213.29 | (I)(I) |
| -Four-Wire | T6E4X | \$27.95 | \$213.29 | (I)(I) |
| Includes Effective Four-Wire Transmission | | | | |
| Inside Move | | | | |
| - Per Termination | IMCSP | | \$106.65 | (I) |
| | | <u>USOC</u> | <u>Monthly Rate</u> | |
| (B) Channel Mileage | | | | |
| (1) Channel Mileage Facility | | | | |
| - Per Mile | | CMF | \$ 1.25 | |
| (2) Channel Mileage Termination | | | | |
| - Per Termination | | CMT | \$ 14.69 | |
| (C) Optional Features and Functions | | | | |
| (1) Bridging | | | | |
| (a) <u>Voice Bridging</u> | | | | |
| Two-Wire/Four-Wire | | | | |
| - Per Port | | | | |
| - Two-Wire | | BCNV2 | \$ 1.29 | |
| - Four-Wire | | BCNV4 | \$ 1.29 | (I) |

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.7 Voice Grade Service (Cont'd)7.7.5 Rates and Charges (Cont'd)

| | <u>USOC</u> | <u>Monthly Rate</u> | |
|---|-------------|---------------------|-----|
| (C) Optional Features and Functions (Cont'd) | | | |
| (1) Bridging (Cont'd) | | | |
| (b) <u>Data Bridging</u> | | | |
| Two-Wire/Four-Wire | | | |
| - Per port | | | |
| - Two-Wire | BCND2 | \$ 1.29 | (I) |
| - Four-Wire | BCND4 | \$ 1.29 | |
| (c) <u>Telephoto Bridging</u> | | | |
| Two-Wire/Four-Wire | | | |
| - Per port | | | |
| - Two-Wire | BCNF2 | \$ 1.29 | |
| - Four-Wire | BCNF4 | \$ 1.29 | (I) |

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7. Special Access Service (Cont'd)7.7 Voice Grade Service (Cont'd)7.7.5 Rates and Charges (Cont'd)

| | <u>USOC</u> | <u>Monthly Rate</u> | |
|---|-------------|---------------------|-----|
| (C) Optional Features and Functions (Cont'd) | | | |
| (2) Conditioning | | | |
| - Per Termination | | | |
| - C - Type | X1CPT | \$ 2.50 | (I) |
| - Improved Attenuation Distortion* | IAD | None | |
| - Improved Envelope Delay Distortion | IEDDC | None | |
| - Sealing Current | 1HBPT | None | |

*Improved Attenuation Distortion and Improved Envelope Delay Distortion will continue to be provided to all customers who were provided with either or both of these optional features in conjunction with C-Type Conditioning prior to September 30, 1988.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.7 Voice Grade Service (Cont'd)7.7.5 Rates and Charges (Cont'd)

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charge</u> | |
|---|-------------|-------------------------|--------------------------------|--------|
| (C) Optional Features and Functions (Cont'd) | | | | |
| (3) Improved Return Loss for Effective Two-Wire or Four- Wire Transmission | | | | |
| - Per termination | | | | |
| - Two-Wire | 1RL2W | \$3.64 | None | (I) |
| - Four-Wire | 1RL4W | \$3.64 | None | (I) |
| (4) Customer Specified Receive Level | | | | |
| - Per two-wire termination RLS | | None | None | |
| (6) Data Capability | | | | |
| - Per termination | XDCPT | \$8.90 | \$119.69 | (I)(I) |
| (7) Effective Four-Wire Transmission | HBC | None | None | |

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7. Special Access Service (Cont'd)7.7 Voice Grade Service (Cont'd)7.7.5 Rates and Charges (Cont'd)

| | <u>USOC</u> | <u>Monthly Rate</u> | |
|---|-------------|---------------------|-----|
| (C) Optional Features and Functions (Cont'd) | | | |
| (8) Signaling Capability - Per termination | XSS++ | \$13.19 | (I) |
| AB | | | |
| AC | | | |
| CT | | | |
| DX | | | |
| DY | | | |
| EA | | | |
| EB | | | |
| EC | | | |
| EX | | | |
| GO | | | |
| GS | | | |
| LA | | | |
| LB | | | |
| LC | | | |
| LO | | | |
| LR | | | |
| LS | | | |
| RV | | | |
| SF | | | |

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7. Special Access Service (Cont'd)7.8 Program Audio Service7.8.1 Basic Channel Description

A Program Audio channel is a channel with bandwidth measured in Hz for the transmission of a complex signal voltage. The actual bandwidth is a function of the channel interface selected by the customer. Only one-way transmission is provided. Program Audio channels are provided between customer designated premises or between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs.

7.8.2 Technical Specifications Packages

| <u>Parameter</u> | <u>C*</u> | <u>Package AP-</u> | | | |
|------------------------|-----------|--------------------|----------|----------|----------|
| | | <u>1</u> | <u>2</u> | <u>3</u> | <u>4</u> |
| Actual Measured Loss X | X | X | X | X | |
| Amplitude Tracking | X | | | | |
| Crosstalk | X | X | X | X | X |
| Distortion Tracking | X | | | | |
| Gain/Frequency | | | | | |
| Distortion | X | X | X | X | X |
| Group Delay | X | | | | |
| Noise X | X | X | X | X | |
| Phase Tracking | X | | | | |
| Short-Term Gain | | | | | |
| Stability | X | | | | |
| Short-Term Loss X | | | | | |
| Total Distortion | X | X | X | X | X |

The technical specifications are delineated in Technical Reference TR-NPL-000337.

7.8.3 Channel Interfaces

The following channel interfaces (CIs) define the bandwidths that are available for a Program Audio channel:

*The desired parameters are selected by the customer from the list of available parameters.

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7. Special Access Service (Cont'd)7.8 Program Audio Service (Cont'd)7.8.3 Channel Interfaces (Cont'd)

| <u>CI</u> | <u>Bandwidth</u> |
|-----------|---------------------------------------|
| PG-1 | Nominal frequency from 50 to 15000 Hz |
| PG-3 | Nominal frequency from 200 to 3500 Hz |
| PG-5 | Nominal frequency from 100 to 5000 Hz |
| PG-8 | Nominal frequency from 50 to 8000 Hz |

Compatible channel interfaces are set forth in 15.3 following.

7.8.4 Optional Features and Functions

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7. Special Access Service (Cont'd)7.8 Program Audio Service (Cont'd)7.8.5 Rates and Charges

| (A) | Channel Termination | USOC | Monthly Rate | Daily* Rate | Nonrecurring Charge | | (I) |
|-----|-----------------------------|-------|-----------------|----------------|------------------------|--------|-----|
| | | | | | Monthly | Daily | |
| | -Per Termination | | | | | | |
| | - 200 to 3500 Hz | T6ECS | \$17.99 | \$1.80 | \$ 213.29 | 213.29 | |
| | - 100 to 5000 Hz | T6ECS | 29.65 | 2.97 | 213.29 | 213.29 | |
| | - 50 to 8000 Hz | T6ECS | 29.65 | 2.97 | 213.29 | 213.29 | |
| | - 50 to 15000 Hz | T6ECS | 29.65 | 2.97 | 213.29 | 213.29 | |
| | | | | | | | |
| (B) | Channel Mileage | USOC | Monthly Rate | Daily Rate* | | | (I) |
| | | | | | | | |
| (1) | Channel Mileage Facility | | | | | | |
| | - Per Mile | | | | | | |
| | - 200 to 3500 Hz | CMF | \$ 1.21 | \$.12 | | | |
| | - 100 to 5000 Hz | CMF | 51.32 | 5.13 | | | |
| | - 50 to 8000 Hz | CMF | 51.32 | 5.13 | | | |
| | - 50 to 15000 Hz | CMF | 51.32 | 5.13 | | | |
| (2) | Channel Mileage Termination | | | | | | |
| | - Per Termination | | | | | | |
| | - 200 to 3500 Hz | CMT | \$10.55 | \$ 1.06 | | | |
| | - 100 to 5000 Hz | CMT | None | None | | | |
| | - 50 to 8000 Hz | CMT | None | None | | | |
| | - 50 to 15000 Hz | CMT | None | None | | | |

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7. Special Access Service (Cont'd)7.9 Video Service7.9.1 Basic Channel Description

A video channel is a channel with one-way transmission capability for a standard 525 line/60 field monochrome, or National Television Systems Committee color, video signal and one or two associated 5 or 15 kHz audio signal(s). The associated audio signal(s) may be either diplexed or provided as one or two separate channels. The provision and the bandwidth of the associated audio signal(s) is a function of the channel interface selected by the customer. Video channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs.

7.9.2 Technical Specifications Packages

| <u>Video Parameters</u> | | <u>Package TV-</u> | | |
|---|---|--------------------|----------|----------|
| | | <u>C*</u> | <u>1</u> | <u>2</u> |
| Insertion Gain | | X | X | X |
| Field-Time Distortion | | X | X | X |
| Line-Time Distortion | X | X | X | |
| Short-Time Distortion | | X | X | X |
| Chrominance/Luminance Gain Inequality | | X | X | X |
| Chrominance/Luminance Delay Inequality | | X | X | X |
| Amplitude/Frequency Characteristic | X | X | X | |
| Luminance Non-Linear Distortion | X | X | X | |
| Chrominance Non-Linear Gain Distortion | | X | X | X |
| Chrominance Non-Linear Phase Distortion | X | X | X | |
| Transient Sync. Signal | | X | X | X |
| Non-Linear | | X | X | X |
| Dynamic Gain Distortion | | | | |
| - Picture Signal | | X | X | X |
| - Sync Signal | X | X | X | |
| Differential Gain | | | | |
| Differential Phase | | X | X | X |
| Chrominance-Luminance Intermodulation | | X | X | X |

*The desired parameters are selected by the customer from the list of available parameters.

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7. Special Access Service (Cont'd)7.9 Video Service (Cont'd)7.9.2 Technical Specifications Packages (Cont'd)

| <u>Audio Channel Parameters</u> <u>Associated with Video Service</u> | <u>C*</u> | <u>Package TV-</u> | | |
|---|-----------|--------------------|----------|---|
| | | <u>1</u> | <u>2</u> | |
| Insertion Gain | | X | X | X |
| Amplitude/Frequency Characteristic | X | X | X | |
| Total Harmonic Distortion & Noise | | X | X | X |
| Maximum Steady-State Test Levels | | X | X | X |
| Gain Difference Between Channels | | X | X | |
| Phase Difference Between Channels | | X | X | |
| Crosstalk | | X | X | X |
| Audio-To-Video Time Differential | | X | X | X |

The technical specifications are delineated in Technical Reference TR-NPL-000338 and associated Addendum.

7.9.3 Channel Interfaces

The following channel interfaces (CIs) define the bandwidth and the provision of the audio signal(s) associated with a Video channel:

| <u>CI</u> | <u>Audio Bandwidth</u> | <u>Provision</u> |
|-----------|------------------------|----------------------|
| 2TV6-1 | 15kHz | 1 Channel, diplexed |
| 2TV6-2 | 15kHz | 2 Channels, diplexed |
| 2TV7-1 | 15kHz | 1 Channel, diplexed |

ACCESS SERVICE

7. Special Access Service (Cont'd)7.9 Video Service (Cont'd)7.9.3 Channel Interfaces (Cont'd)

| <u>CI</u> | <u>Bandwidth</u> | <u>Provision</u> |
|-----------|------------------|----------------------|
| 2TV7-2 | 15kHz | 2 Channels, diplexed |
| 4TV6-5 | 5kHz | 1 Channel, separate |
| 4TV6-15 | 15kHz | 1 Channel, separate |
| 4TV7-5 | 5kHz | 1 Channel, separate |
| 4TV7-15 | 15kHz | 1 Channel, separate |
| 6TV6-5 | 5kHz | 2 Channels, separate |
| 6TV6-15 | 15kHz | 2 Channels, separate |
| 6TV7-5 | 5kHz | 2 Channels, separate |
| 6TV7-15 | 15kHz | 2 Channels, separate |

Compatible channel interfaces are set forth in 15.3 following.

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7. Special Access Service (Cont'd)7.9 Video Service (Cont'd)7.9.4 Rates and Charges

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Daily*</u> <u>Rate</u> | <u>Nonrecurring Charge</u> | | |
|---------------------------------|-------------|-------------------------|------------------------------|--------------------------------|-----------------------|-----|
| | | | | <u>Monthly</u> | <u>Daily</u> | |
| (A) Channel Termination | | | | | | |
| - Per Termination | | | | | | |
| - TV-1 or 2 | TMEV1 | \$1,421.63 | \$781.89 | None | None | (R) |
| (B) Channel Mileage | | | | | | |
| | <u>USOC</u> | | <u>Monthly Rate</u> | | <u>Daily Rate</u> | |
| (1) Channel Mileage Facility | | | | | | |
| - Per Mile | | | | | | |
| - TV-1 or 2 | CMF | | \$1,071.28 | | \$589.20 | |
| (2) Channel Mileage Termination | | | | | | |
| - Per Termination | | | | | | |
| - TV-1 or 2 | CMT | | \$5,281.09 | | \$2,904.60 | (R) |

* Daily rates will be topped and maximum rates derived as set forth in 7.2.2(B) preceding.

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7. Special Access Service (Cont'd)7.10 Digital Data Service7.10.1 Basic Channel Description

A Digital Data channel is a channel for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6 or 56 kbps. The actual bit rate is a function of the channel interface selected by the customer. The channel provides a synchronous service with timing provided by the Telephone Company through the Telephone Company's facilities to the customer in the received bit stream. Digital Data channels are only available via Telephone Company designated hubs and are provided between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs.

The customer shall be responsible for providing the Channel Service Unit-type equipment or other Network Channel Terminating Equipment associated with the Digital Data channel at the customer premises. The interim program for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

7.10.2 Technical Specifications Packages

| <u>Parameter</u> | <u>Package D-</u> | | | | | |
|--------------------|-------------------|----------|----------|----------|----------|----------|
| | <u>1</u> | <u>2</u> | <u>3</u> | <u>4</u> | <u>5</u> | <u>6</u> |
| Error-Free Seconds | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> |

The Telephone Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875% error-free seconds (if provided through a Digital Data hub) while the channel is in service, if it is measured through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62310.

Voltages which are compatible with Digital Data Service are delineated in Technical Reference TR-NPL-000341

7.10.3 Channel Interfaces

The following channel interfaces (CIs) define the bit rates that are available for a Digital Data channel:

*When 64 kbps service is multiplexed on a DS1 High Capacity service, the DS1 service must be equipped to provide clear channel capability.

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7. Special Access Service (Cont'd)7.10 Digital Data Service (Cont'd)7.10.3 Channel Interfaces (Cont'd)

| <u>CI</u> | <u>Bit Rate</u> |
|-----------|-----------------|
| DU-24 | 2.4 kbps |
| DU-48 | 4.8 kbps |
| DU-96 | 9.6 kbps |
| DU-19 | 19.2 kbps |
| DU-56 | 56.0 kbps |
| DU-64 | 64.0 kbps |

Compatible channel interfaces are set forth in 15.3 following.

7.10.4 Optional Features and Functions(A) Central Office Bridging Capability

The bridging functions performed are to connect three or more customer designated premises in a multipoint arrangement. Bridging is not available on a 64.0 kbps channel.

(B) DS0 to Subrate

An arrangement that converts a DS0-B 64.0 kbps channel to subspeeds of up to twenty 2.4 kbps, ten 4.8 kbps or five 9.6 kbps DS0-A channels using digital time division multiplexing.

(C) Secondary Channel Capability

The secondary channel option provides the customer with the capability to derive an independent, slower speed auxiliary (secondary) channel that operates in parallel with a primary Digital Data Channel without reducing the operating speed of the primary channel. It is available for all speeds of 2.4, 4.8, 9.6, 19.2 and 56 kbps channels. For 56 kbps channels, the option may be used only in two-point configurations which do not require the installation of loop repeater equipment. The technical parameters for the channels with a secondary channel option are set forth in Technical Publication - TR-62310. The speeds of the secondary channels are as follows:

133 bps with a primary 2.4 kbps channel
266 bps with a primary 4.8 kbps channel
533 bps with a primary 9.6 kbps channel
1,066 bps with a primary 19.2 kbps channel
2,666 bps with a primary 56 kbps channel

This optional feature is subject to availability.

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7. Special Access Service (Cont'd)7.10 Digital Data Service (Cont'd)7.10.4 Optional Features and Functions (Cont'd)

The following table shows the technical specifications packages with which the optional features and functions are available.

| | | <u>Available with Technical Specifications Package D</u> | | | | | |
|-------------------------------|---|--|----------|----------|----------|----------|----------|
| | | <u>1</u> | <u>2</u> | <u>3</u> | <u>4</u> | <u>5</u> | <u>6</u> |
| Central Office Bridging | | | | | | | |
| Capability | | X | X | X | X | X | |
| DS0 to Subrate | | X | X | X | | | |
| Secondary Channel Capability* | X | X | X | X | X | | |

* Subject to availability.

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7. Special Access Service (Cont'd)7.10 Digital Data Service (Cont'd)7.10.5 Rates and Charges

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charge</u> | |
|---------------------------------|-------------|-------------------------|--------------------------------|-----|
| (A) Channel Termination | | | | |
| - Per termination | | | | |
| - 2.4 kbps | T6ECS | \$ 53.79 | \$230.04 | (I) |
| - 4.8 kbps | T6ECS | \$ 53.79 | \$230.04 | |
| - 9.6 kbps | T6ECS | \$ 53.79 | \$230.04 | |
| - 19.2 kbps | T6ECS | \$ 53.79 | \$230.04 | |
| - 56.0 kbps | T6ECS | \$ 53.79 | \$230.04 | |
| - 64.0 kbps | T6ECS | \$ 53.79 | \$230.04 | |
| (B) Channel Mileage | <u>USOC</u> | | <u>Monthly Rate</u> | |
| (1) Channel Mileage Facility | | | | |
| - Per Mile | | | | |
| - 2.4 kbps | CMF | | \$ 1.53 | |
| - 4.8 kbps | CMF | | \$ 1.53 | |
| - 9.6 kbps | CMF | | \$ 1.53 | |
| - 19.2 kbps | CMF | | \$ 1.53 | |
| - 56.0 kbps | CMF | | \$ 1.53 | |
| - 64.0 kbps | CMF | | \$ 1.53 | |
| (2) Channel Mileage Termination | | | | |
| - Per Termination | | | | |
| - 2.4 kbps | CMT | | \$12.43 | |
| - 4.8 kbps | CMT | | \$12.43 | |
| - 9.6 kbps | CMT | | \$12.43 | |
| - 19.2 kbps | CMT | | \$12.43 | |
| - 56.0 kbps | CMT | | \$12.43 | |
| - 64.0 kbps | CMT | | \$12.43 | (I) |

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7. Special Access Service (Cont'd)7.10 Digital Data Service (Cont'd)7.10.5 Rates and Charges (Cont'd)(C) Optional Features and Functions

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charge</u> | |
|---|-------------|-------------------------|--------------------------------|-----|
| (1) Bridging - Per port | BCNDA | \$ 25.18 | None | (I) |
| (2) DS0 to Subrate Multiplexing - - Per arrangement - up to 20 2.4 kbps - up to 10 4.8 kbps - up to 5 9.6 kbps | | | | |
| All Subrates | SRM | \$376.99 | None | (I) |
| (3) Secondary Channel Capability | SCC | ICB | ICB | |

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service7.11.1 Basic Channel Description

A High Capacity channel is a channel for the transmission of nominal 1.544 Mbps (DS1) or 44.736 Mbps (DS3) isochronous serial data. The actual bit rate is a function of the channel interface selected by the customer. High Capacity channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs.

The customer may provide the Network Channel Terminating Equipment associated with the High Capacity channel at the customer's premises.

DS3 Channel Terminations are available utilizing an Electrical or Optical Interface. The Interfaces will have the characteristics of their respective signals at the Point of Termination.

Electrical Interface Channel Terminations will be provisioned utilizing Telephone Company provided equipment.

Optical Interface Channel Terminations will be provisioned utilizing Telephone Company provided equipment in the serving wire center. The Telephone Company will identify approved equipment types for use in conjunction with Telephone Company provided equipment. The customer must select and provide a system from this equipment at their premises.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.2 Technical Specifications Packages

| <u>Parameters</u> | <u>Package</u> | |
|--|----------------|------------|
| | <u>HC1</u> | <u>HC3</u> |
| Error-Free Seconds | X | |
| <u>Optional Features</u> <u>and Functions</u> | | |
| Automatic Loop Transfer | X | |
| Battery Back-Up | | X |
| Central Office Multiplexing: | | |
| DS1 to Voice | X | |
| DS1 to DSO | X | |
| DS3 to DS1 | | X |
| Clear Channel Capability | X | |

A channel with technical specifications package HC1 will be capable of an error-free second performance of 98.75% over a continuous 24 hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62411.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.3 Channel Interfaces

The following channel interfaces (CIs) define the bit rates that are available for a High Capacity channel:

| CI | Bit Rate |
|-------|-------------------|
| DS-15 | 1.544 Mbps (DS1) |
| DS-44 | 44.736 Mbps (DS3) |

Compatible channel interfaces are set forth in 15.3 following.

7.11.4 Optional Features and Functions(A) Automatic Loop Transfer

The Automatic Loop Transfer provides protection on a 1xN basis against failure of the facilities between a customer designated premises and the wire center serving that premises. Protection is furnished through the use of a switching arrangement that automatically switches to a spare channel line when a working line fails. The spare channel is not included as a part of the option. This option requires compatible equipment at both the serving wire center and the customer premises. The customer is responsible for providing the equipment at its premises. Equipment at the customer designated premises will be provided under tariff only if it existed in the Telephone Company inventory as of November 18, 1983.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.11 High Capacity Service (Cont'd)

7.11.4 Optional Features and Functions (Cont'd)

(B) Battery Back-Up

Battery Back-Up is an optional DC power source to be used for emergency power for the channelizing equipment.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.11 High Capacity Service (Cont'd)

7.11.4 Optional Features and Functions (Cont'd)

(C) Central Office Multiplexing

(1) DS1 to Voice

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel(s) of this DS1 to the Hub can also be used for a Digital Data Service.

(2) DS1 to DS0

An arrangement that converts a 1.544 Mbps channel to 23 64.0 Kbps channels utilizing digital time division multiplexing.

(3) DS3 to DS1

An arrangement that converts a 44.736 Mbps channel to 28 DS1 channels using digital time division multiplexing.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.4 Optional Features and Functions (Cont'd)(D) Clear Channel Capability (CCC)

- (1) CCC is an arrangement that allows a customer to transport 1.536 Mbps information rate signals over a 1.544 Mbps High Capacity channel or over a 1.544 Mbps High Capacity channel derived from a multiplexed 44.736 Mbps High Capacity channel with no constraint on the quantity or sequence of one and zero bits. This arrangement requires the customer signal at the channel interface to conform to Bipolar with Eight Zero Substitution (B8ZS) line code as described in Technical Reference TR-NPL-000054 and Technical Reference TR-INS-000342.
- (2) CCC is provided, subject to availability of facilities, on DS1/1.544 Mbps High Capacity channels between two customer designated premises and on multiplexed DS3/44.736 Mbps High Capacity channels or multiplexed DS1/1.544 Mbps High Capacity channels or multiplexed DS1/1.544 Mbps High Capacity channels* between a telephone company hub office and a customer designated premises. The wire centers providing CCC are identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC., WIRE CENTER INFORMATION, TARIFF F.C.C. NO. 4.
- (3) No charge applies when the CCC optional feature is ordered at the same time the High Capacity service is ordered. If the CCC optional feature is ordered as an addition to an existing High Capacity Service, a nonrecurring charge is applicable as set forth in 7.11.5 following. The customer must agree to out-of-service periods required to add this feature to an existing High Capacity Service.

*Available only on a DS1-to-Digital multiplexed configuration.

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7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.5 Rates and Charges - DS1(A) Density Pricing Zone 1

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charge</u> | |
|---|-------------|-------------------------|--------------------------------|-----|
| (1) Channel Termination - Per Termination - 1.544 Mbps | TMECS | \$ 90.00 | \$474.00 | (I) |
| (2) Channel Mileage | | <u>USOC</u> | <u>Monthly Rate</u> | |
| (a) Channel Mileage Facility - Per Mile - 1.544 Mbps | | CMF | \$10.00 | |
| (b) Channel Mileage Termination - Per Termination - 1.544 Mbps | | CMT | \$133.00 | (I) |
| (3) Optional Features and Functions | | <u>USOC</u> | <u>Monthly Rate</u> | |
| (a) Multiplexing, per arrangement DS1 to Voice* | | MQ1 | \$377.90 | |
| DS1 to DS0 | | QMU | 377.90 | |
| (b) Automatic Loop Transfer - Per arrangement** | | T59 | \$202.55 | |
| (c) Clear Channel Capability - Per 1.544 Mbps Transmission Path | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charge</u> | |
| | CLR | None | \$100.91 | (I) |

* A channel of this DS1 to the Hub can be used for Digital Data service.

** An additional Channel Termination charge will apply whenever the spare line is provided as a leg to the customer premises.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.5 Rates and Charges - DS1 (Cont'd)(B) Density Pricing Zone 2

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charge</u> | |
|---|------------------------|-------------------------------------|--|-----|
| (1) Channel Termination - Per Termination - 1.544 Mbps | TMECS | \$ 91.00 | \$474.00 | (I) |
| (2) Channel Mileage | | <u>USOC</u> | <u>Monthly Rate</u> | |
| (a) Channel Mileage Facility - Per Mile - 1.544 Mbps | | CMF | \$10.65 | |
| (b) Channel Mileage Termination - Per Termination - 1.544 Mbps | | CMT | \$133.00 | |
| (3) Optional Features and Functions | | <u>USOC</u> | <u>Monthly Rate</u> | |
| (a) Multiplexing, per arrangement DS1 to Voice* DS1 to DS0 | | MQ1 QMU | \$377.90 377.90 | |
| (b) Automatic Loop Transfer - Per arrangement** | | T59 | \$202.55 | |
| (c) Clear Channel Capability - Per 1.544 Mbps Transmission Path | <u>USOC</u> CLR | <u>Monthly Rate</u> None | <u>Nonrecurring Charge</u> \$100.91 | (I) |

* A channel of this DS1 to the Hub can be used for Digital Data service.

** An additional Channel Termination charge will apply whenever the spare line is provided as a leg to the customer premises.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.5 Rates and Charges - DS1 (Cont'd)(C) Density Pricing Zone 3

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charge</u> | |
|---|--------------------|-----------------------------|--|-----|
| (1) Channel Termination - Per Termination - 1.544 Mbps | TMECS | \$115.00 | \$474.00 | (I) |
| (2) Channel Mileage | | <u>USOC</u> | <u>Monthly Rate</u> | |
| (a) Channel Mileage Facility - Per Mile - 1.544 Mbps | CMF | | \$12.00 | |
| (b) Channel Mileage Termination - Per Termination - 1.544 Mbps | CMT | | \$168.54 | |
| (3) Optional Features and Functions | | <u>USOC</u> | <u>Monthly Rate</u> | |
| (a) Multiplexing, per arrangement DS1 to Voice* DS1 to DS0 | MQ1 QMU | | \$377.90 377.90 | |
| (b) Automatic Loop Transfer - Per arrangement** | T59 | | \$202.55 | |
| (c) Clear Channel Capability - Per 1.544 Mbps Transmission Path | <u>USOC</u> CLR | <u>Monthly Rate</u> None | <u>Nonrecurring Charge</u> \$100.91 | (I) |

* A channel of this DS1 to the Hub can be used for Digital Data service.

** An additional Channel Termination charge will apply whenever the spare line is provided as a leg to the customer premises.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS37.11.6.1 Monthly Rates and Charges - Density Pricing Zone 1

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charges</u> | |
|--|-------------|-------------------------|---------------------------------|-----|
| (A) Channel Termination Per Termination | | | | |
| (1) Electrical Interface | | | | |
| Capacity of 1 Interface | THJAX | \$1,200.00 | \$430.00 | (I) |
| Capacity of 3 Interface | THJJX | 1,900.00 | | |
| - Per DS3 | TH5JX | 185.58 | 430.00 | |
| Capacity of 6 Interface | HDJAX | 3,300.00 | | |
| - Per DS3 | HD5AX | 142.35 | 430.00 | |
| Capacity of 12 Interface | THJNX | 4,550.00 | | |
| - Per DS3 | TH5NX | 142.35 | 430.00 | |
| (2) Optical Interface | | | | |
| Capacity of 1 Interface | TH2AX | \$1,250.00 | \$430.00 | (I) |
| Capacity of 3 Interface | TH2JX | 1,750.00 | | (I) |
| - Per DS3 | TH8JX | 125.28 | 430.00 | |
| Capacity of 6 Interface | HD2AX | 2,729.00 | | |
| - Per DS3 | HD8AX | 94.85 | 430.00 | |
| Capacity of 12 Interface | TH2NX | 3,200.00 | | |
| - Per DS3 | TH8NX | 94.85 | 430.00 | |

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.1 Monthly Rates and Charges - Density
Pricing Zone 1 (Cont'd)

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charges</u> | |
|---|-------------|-------------------------|---------------------------------|-----|
| (B) Channel Mileage | | | | |
| (1) Channel Mileage Facility - Per Mile | CMF | \$114.94 | None | (I) |
| (2) Channel Mileage Termination * - Per Termination | CMT | \$510.00 | \$500.00 | |
| (C) Optional Features and Functions | | | | |
| (1) Multiplexing, Per Arrangement DS3 to DS1 | MQ3 | \$279.89 | | |
| (2) Battery Back-Up, Per Arrangement | BU6 | \$ 92.00 | | (I) |

* Nonrecurring charges apply to Channel Mileage Terminations when installed without a Channel Termination.

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7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.2 36 Month Rates and Charges - Density
Pricing Zone 1

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charges</u> | |
|--|-------------|-------------------------|---------------------------------|-----|
| (A) Channel Termination Per Termination | | | | |
| (1) Electrical Interface | | | | |
| Capacity of 1 Interface | THJAX | \$1,200.00 | \$430.00 | (I) |
| Capacity of 3 Interface | THJJX | 1,680.00 | | (I) |
| - Per DS3 | TH5JX | 164.09 | 430.00 | |
| Capacity of 6 Interface | HDJAX | 2,750.00 | | |
| - Per DS3 | HD5AX | 118.54 | 430.00 | |
| Capacity of 12 Interface | THJNX | 4,100.00 | | |
| - Per DS3 | TH5NX | 118.54 | 430.00 | |
| (2) Optical Interface | | | | |
| Capacity of 1 Interface | TH2AX | \$1,310.00 | \$430.00 | |
| Capacity of 3 Interface | TH2JX | 1,600.00 | | |
| - Per DS3 | TH8JX | 114.54 | 430.00 | |
| Capacity of 6 Interface | HD2AX | 2,600.00 | | |
| - Per DS3 | HD8AX | 90.36 | 430.00 | |
| Capacity of 12 Interface | TH2NX | 3,400.00 | | |
| - Per DS3 | TH8NX | 90.36 | 430.00 | (I) |

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7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.2 36 Month Rates and Charges - Density
Pricing Zone 1 (Cont'd)

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charges</u> | |
|--|-------------|-------------------------|---------------------------------|-----|
| (B) Channel Mileage | | | | |
| (1) Channel Mileage Facility | | | | |
| - Per Mile | CMF | \$110.00 | None | (I) |
| (2) Channel Mileage Termination * | | | | |
| - Per Termination | CMT | \$480.00 | \$500.00 | |
| (C) Optional Features and Functions | | | | |
| (1) Multiplexing, Per Arrangement DS3 to DS1 | MQ3 | \$279.89 | | |
| (2) Battery Back-Up, Per Arrangement | BU6 | \$ 92.00 | | (I) |

* Nonrecurring charges apply to Channel Mileage Terminations when installed without a Channel Termination.

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7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.3 60 Month Rates and Charges - Density
Pricing Zone 1

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charges</u> | |
|--|-------------|-------------------------|---------------------------------|-----|
| (A) Channel Termination Per Termination | | | | |
| (1) Electrical Interface | | | | |
| Capacity of 1 Interface | THJAX | \$1,190.00 | \$430.00 | (I) |
| Capacity of 3 Interface | THJJX | 1,600.00 | | |
| - Per DS3 | TH5JX | 156.28 | 430.00 | |
| Capacity of 6 Interface | HDJAX | 2,750.00 | | |
| - Per DS3 | HD5AX | 118.63 | 430.00 | |
| Capacity of 12 Interface | THJNX | 3,800.00 | | |
| - Per DS3 | TH5NX | 118.63 | 430.00 | |
| (2) Optical Interface | | | | |
| Capacity of 1 Interface | TH2AX | \$1,200.00 | \$430.00 | |
| Capacity of 3 Interface | TH2JX | 1,480.00 | | |
| - Per DS3 | TH8JX | 105.95 | 430.00 | |
| Capacity of 6 Interface | HD2AX | 2,300.00 | | |
| - Per DS3 | HD8AX | 79.94 | 430.00 | |
| Capacity of 12 Interface | TH2NX | 3,000.00 | | |
| - Per DS3 | TH8NX | 79.94 | 430.00 | (I) |

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7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.3 60 Month Rates and Charges - Density
Pricing Zone 1 (Cont'd)

| | USOC | Monthly Rate | Nonrecurring Charges | |
|---|------|-----------------|-------------------------|-----|
| (B) Channel Mileage | | | | |
| (1) Channel Mileage Facility - Per Mile | CMF | \$ 99.00 | None | (I) |
| (2) Channel Mileage Termination * - Per Termination | CMT | \$430.00 | \$500.00 | |
| (C) Optional Features and Functions | | | | |
| (1) Multiplexing, Per Arrangement DS3 to DS1 | MQ3 | \$279.89 | | |
| (2) Battery Back-Up, Per Arrangement | BU6 | \$ 92.00 | | (I) |

* Nonrecurring charges apply to Channel Mileage Terminations when installed without a Channel Termination.

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7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.4 Monthly Rates and Charges - Density
Pricing Zone 2

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charges</u> | |
|--|-------------|-------------------------|---------------------------------|-----|
| (A) Channel Termination Per Termination | | | | |
| (1) Electrical Interface | | | | |
| Capacity of 1 Interface | THJAX | \$1,148.58 | \$430.00 | (I) |
| Capacity of 3 Interface | THJJX | 1,950.00 | | (I) |
| - Per DS3 | TH5JX | 190.46 | 430.00 | |
| Capacity of 6 Interface | HDJAX | 3,400.00 | | |
| - Per DS3 | HD5AX | 146.66 | 430.00 | |
| Capacity of 12 Interface | THJNX | 4,750.00 | | |
| - Per DS3 | TH5NX | 146.66 | 430.00 | |
| (2) Optical Interface | | | | |
| Capacity of 1 Interface | TH2AX | \$1,284.38 | \$430.00 | |
| Capacity of 3 Interface | TH2JX | 1,800.00 | | |
| - Per DS3 | TH8JX | 128.86 | 430.00 | |
| Capacity of 6 Interface | HD2AX | 2,850.00 | | |
| - Per DS3 | HD8AX | 99.06 | 430.00 | |
| Capacity of 12 Interface | TH2NX | 3,750.00 | | |
| - Per DS3 | TH8NX | 99.06 | 430.00 | (I) |

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7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.4 Monthly Rates and Charges - Density
Pricing Zone 2 (Cont'd)

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charges</u> | |
|--|-------------|-------------------------|---------------------------------|-----|
| (B) Channel Mileage | | | | |
| (1) Channel Mileage Facility - Per Mile | CMF | \$114.94 | None | (I) |
| (2) Channel Mileage Termination * | | | | |
| - Per Termination | CMT | \$510.00 | \$500.00 | |
| (C) Optional Features and Functions | | | | |
| (1) Multiplexing, Per Arrangement DS3 to DS1 | MQ3 | \$279.89 | | |
| (2) Battery Back-Up, Per Arrangement | BU6 | \$ 92.00 | | (I) |

* Nonrecurring charges apply to Channel Mileage Terminations when installed without a Channel Termination.

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7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.5 36 Month Rates and Charges - Density
Pricing Zone 2

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charges</u> | |
|--|-------------|-------------------------|---------------------------------|-----|
| (A) Channel Termination Per Termination | | | | |
| (1) Electrical Interface | | | | |
| Capacity of 1 Interface | THJAX | \$1,300.00 | \$430.00 | (I) |
| Capacity of 3 Interface | THJJX | 1,800.00 | | |
| - Per DS3 | TH5JX | 175.81 | 430.00 | |
| Capacity of 6 Interface | HDJAX | 3,100.00 | | |
| - Per DS3 | HD5AX | 133.72 | 430.00 | |
| Capacity of 12 Interface | THJNX | 4,300.00 | | |
| - Per DS3 | TH5NX | 133.72 | 430.00 | |
| (2) Optical Interface | | | | |
| Capacity of 1 Interface | TH2AX | \$1,350.00 | \$430.00 | |
| Capacity of 3 Interface | TH2JX | 1,650.00 | | |
| - Per DS3 | TH8JX | 118.12 | 430.00 | |
| Capacity of 6 Interface | HD2AX | 2,550.00 | | |
| - Per DS3 | HD8AX | 88.63 | 430.00 | |
| Capacity of 12 Interface | TH2NX | 3,350.00 | | |
| - Per DS3 | TH8NX | 88.63 | 430.00 | (I) |

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7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.5 36 Month Rates and Charges - Density
Pricing Zone 2 (Cont'd)

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charges</u> | |
|---|-------------|-------------------------|---------------------------------|-----|
| (B) Channel Mileage | | | | |
| (1) Channel Mileage Facility - Per Mile | CMF | \$110.00 | None | (I) |
| (2) Channel Mileage Termination * - Per Termination | CMT | \$480.00 | \$500.00 | |
| (C) Optional Features and Functions | | | | |
| (1) Multiplexing, Per Arrangement DS3 to DS1 | MQ3 | \$279.89 | | |
| (2) Battery Back-Up, Per Arrangement | BU6 | \$ 92.00 | | (I) |

* Nonrecurring charges apply to Channel Mileage Terminations when installed without a Channel Termination.

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7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.6 60 Month Rates and Charges - Density
Pricing Zone 2

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charges</u> | |
|--|-------------|-------------------------|---------------------------------|-----|
| (A) Channel Termination Per Termination | | | | |
| (1) Electrical Interface | | | | |
| Capacity of 1 Interface | THJAX | \$1,150.00 | \$430.00 | (I) |
| Capacity of 3 Interface | THJJX | 1,550.00 | | |
| - Per DS3 | TH5JX | 151.39 | 430.00 | |
| Capacity of 6 Interface | HDJAX | 2,700.00 | | |
| - Per DS3 | HD5AX | 116.47 | 430.00 | |
| Capacity of 12 Interface | THJNX | 3,750.00 | | |
| - Per DS3 | TH5NX | 116.47 | 430.00 | |
| (2) Optical Interface | | | | |
| Capacity of 1 Interface | TH2AX | \$1,200.00 | \$430.00 | |
| Capacity of 3 Interface | TH2JX | 1,460.00 | | |
| - Per DS3 | TH8JX | 104.52 | 430.00 | |
| Capacity of 6 Interface | HD2AX | 2,300.00 | | |
| - Per DS3 | HD8AX | 79.94 | 430.00 | |
| Capacity of 12 Interface | TH2NX | 3,000.00 | | |
| - Per DS3 | TH8NX | 79.94 | 430.00 | (I) |

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Pricing Zone 2 (Cont'd)

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charges</u> | |
|---|-------------|-------------------------|---------------------------------|-----|
| (B) Channel Mileage | | | | |
| (1) Channel Mileage Facility - Per Mile | CMF | \$ 99.00 | None | (I) |
| (2) Channel Mileage Termination * - Per Termination | CMT | \$430.00 | \$500.00 | |
| (C) Optional Features and Functions | | | | |
| (1) Multiplexing, Per Arrangement DS3 to DS1 | MQ3 | \$279.89 | | |
| (2) Battery Back-Up, Per Arrangement | BU6 | \$ 92.00 | | (I) |

* Nonrecurring charges apply to Channel Mileage Terminations when installed without a Channel Termination.

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7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.7 Monthly Rates and Charges - Density Pricing Zone 3

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charges</u> | |
|--|-------------|-------------------------|---------------------------------|-----|
| (A) Channel Termination Per Termination | | | | |
| (1) Electrical Interface | | | | |
| Capacity of 1 Interface | THJAX | \$1,574.32 | \$430.00 | (I) |
| Capacity of 3 Interface | THJJX | 2,500.00 | | |
| - Per DS3 | TH5JX | 244.19 | 430.00 | |
| Capacity of 6 Interface | HDJAX | 4,300.00 | | |
| - Per DS3 | HD5AX | 185.49 | 430.00 | |
| Capacity of 12 Interface | THJNX | 6,000.00 | | |
| - Per DS3 | TH5NX | 185.49 | 430.00 | |
| (2) Optical Interface | | | | |
| Capacity of 1 Interface | TH2AX | \$1,616.06 | \$430.00 | |
| Capacity of 3 Interface | TH2JX | 2,300.00 | | |
| - Per DS3 | TH8JX | 164.65 | 430.00 | |
| Capacity of 6 Interface | HD2AX | 3,600.00 | | |
| - Per DS3 | HD8AX | 125.11 | 430.00 | |
| Capacity of 12 Interface | TH2NX | 4,740.00 | | |
| - Per DS3 | TH8NX | 125.11 | 430.00 | (I) |

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7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.7 Monthly Rates and Charges - Density
Pricing Zone 3 (Cont'd)

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charges</u> | |
|---|-------------|-------------------------|---------------------------------|-----|
| (B) Channel Mileage | | | | |
| (1) Channel Mileage Facility - Per Mile | CMF | \$129.44 | None | (I) |
| (2) Channel Mileage Termination * - Per Termination | CMT | \$646.28 | \$500.00 | |
| (C) Optional Features and Functions | | | | |
| (1) Multiplexing, Per Arrangement DS3 to DS1 | MQ3 | \$279.89 | | |
| (2) Battery Back-Up, Per Arrangement | BU6 | \$ 92.00 | | (I) |

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7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.8 36 Month Rates and Charges - Density
Pricing Zone 3

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charges</u> | |
|--|-------------|-------------------------|---------------------------------|-----|
| (A) Channel Termination Per Termination | | | | |
| (1) Electrical Interface | | | | |
| Capacity of 1 Interface | THJAX | \$1,660.00 | \$430.00 | (I) |
| Capacity of 3 Interface | THJJX | 2,260.00 | | |
| - Per DS3 | TH5JX | 220.74 | 430.00 | |
| Capacity of 6 Interface | HDJAX | 3,900.00 | | |
| - Per DS3 | HD5AX | 168.23 | 430.00 | |
| Capacity of 12 Interface | THJNX | 5,400.00 | | |
| - Per DS3 | TH5NX | 168.23 | 430.00 | |
| (2) Optical Interface | | | | |
| Capacity of 1 Interface | TH2AX | \$1,700.00 | \$430.00 | |
| Capacity of 3 Interface | TH2JX | 2,100.00 | | |
| - Per DS3 | TH8JX | 150.33 | 430.00 | |
| Capacity of 6 Interface | HD2AX | 3,280.00 | | |
| - Per DS3 | HD8AX | 114.00 | 430.00 | |
| Capacity of 12 Interface | TH2NX | 4,300.00 | | |
| - Per DS3 | TH8NX | 114.00 | 430.00 | (I) |

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7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.8 36 Month Rates and Charges - Density
Pricing Zone 3 (Cont'd)

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charges</u> | |
|---|-------------|-------------------------|---------------------------------|-----|
| (B) Channel Mileage | | | | |
| (1) Channel Mileage Facility - Per Mile | CMF | \$125.00 | None | (I) |
| (2) Channel Mileage Termination * - Per Termination | CMT | \$610.00 | \$500.00 | |
| (C) Optional Features and Functions | | | | |
| (1) Multiplexing, Per Arrangement DS3 to DS1 | MQ3 | \$279.89 | | |
| (2) Battery Back-Up, Per Arrangement | BU6 | \$ 92.00 | | (I) |

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7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.9 60 Month Rates and Charges - Density
Pricing Zone 3

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charges</u> | |
|--|-------------|-------------------------|---------------------------------|-----|
| (A) Channel Termination Per Termination | | | | |
| (1) Electrical Interface | | | | |
| Capacity of 1 Interface | THJAX | \$1,500.00 | \$430.00 | (I) |
| Capacity of 3 Interface | THJJX | 2,000.00 | | |
| - Per DS3 | TH5JX | 195.35 | 430.00 | |
| Capacity of 6 Interface | HDJAX | 3,450.00 | | |
| - Per DS3 | HD5AX | 148.82 | 430.00 | |
| Capacity of 12 Interface | THJNX | 4,800.00 | | |
| - Per DS3 | TH5NX | 148.82 | 430.00 | |
| (2) Optical Interface | | | | |
| Capacity of 1 Interface | TH2AX | \$1,500.00 | \$430.00 | |
| Capacity of 3 Interface | TH2JX | 1,880.00 | | |
| - Per DS3 | TH8JX | 134.58 | 430.00 | |
| Capacity of 6 Interface | HD2AX | 2,900.00 | | |
| - Per DS3 | HD8AX | 100.79 | 430.00 | |
| Capacity of 12 Interface | TH2NX | 3,800.00 | | |
| - Per DS3 | TH8NX | 100.79 | 430.00 | (I) |

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7. Special Access Service (Cont'd)7.11 High Capacity Service (Cont'd)7.11.6 Rates and Charges - DS3 (Cont'd)7.11.6.9 60 Month Rates and Charges - Density
Pricing Zone 3 (Cont'd)

| | <u>USOC</u> | <u>Monthly Rate</u> | <u>Nonrecurring Charges</u> | |
|--|-------------|-------------------------|---------------------------------|-----|
| (B) Channel Mileage | | | | |
| (1) Channel Mileage Facility | | | | |
| - Per Mile | CMF | \$110.00 | None | (I) |
| (2) Channel Mileage Termination * | | | | |
| - Per Termination | CMT | \$545.00 | \$500.00 | |
| (C) Optional Features and Functions | | | | |
| (1) Multiplexing, Per Arrangement DS3 to DS1 | MQ3 | \$279.89 | | |
| (2) Battery Back-Up, Per Arrangement | BU6 | \$ 92.00 | | (I) |

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